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Houston Oxidant Modeling Study-1978
Volume II. Data-Base Guide

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HOUSTON OXIDANT MODELING STUDY-1978

VOLUME II. DATA-BASE GUIDE

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16. ABSTRACT

During the period 15 September through 12 October 1978, the U.S. Environmental Protection Agency (EPA) conducted a special program that monitored air quality and meteorology in the Houston, Texas area. The objectives of the program were to obtain a comprehensive data base suitable for use with photochemical air-quality simulation models and to provide a detailed body of data that can be used to investigate Houston's air quality in general and photochemical oxidants (HOMS Study) and aerosols (HACS Study) in particular.

The objectives of this contract were (a) to evaluate the suitability of the 1978 Houston data base for photochemical modeling application, (b) to analyze spatial and temporal patterns of pollutant concentrations, (c) to archive data in a manner suitable for use with air quality simulation models, (d) to analyze and characterize the quality of the gaseous pollutant measurements, and (e) to use the data to evaluate the performance of the EKMA photochemical model. Results from the data evaluation and archiving work are reported in a three-volume report. (Results from the EKMA evaluation work are reported in a separate report.)

The data evaluation effort is reported in Volumes 1 and 2; the data quality characterization effort is reported in Volume 3.

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ABSTRACT

During the period 15 September to 12 October 1978, an intensive sampling program was undertaken in the Houston, Texas area. The program consisted of two parts, respectively named Houston Oxidant Modeling Study (HOMS) and Houston Aerosol Characterization Study (HACS). The data from this comprehensive program have been edited and compiled in an archive suitable for use with air-quality simulation models and by data analysts. The archive consists of two magnetic tapes containing both meteorological and air-quality data. The data base includes measurements made by aircraft, pilot balloon (pibal), and tethersonde, as well as aerosol data and detailed hydrocarbon analyses. This manual describes the data base and the contents and format of the magnetic tapes.

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SECTION 1

INTRODUCTION

OBJECTIVES

This report describes the structure and content of the data archive compiled at SRI International from air-quality and meteorological data measured in the Houston, Texas area between 15 September and 12 October 1978. The measurements were obtained for the Houston Oxidant Modeling Study (HOMS) and the Houston Aerosol Characterization Study (HACS). Both studies were sponsored by the U.S. Environmental Protection Agency. The data were collected by government agencies and private concerns under contract to the EPA.

The data are divided into two types: data that can be put into SAROAD* format (which we will call "daily data") and special data that require different formats or treatment. The special data include pilot balloon (pibal) wind data, tethersonde data, aerosol, detailed hydrocarbon analyses, and data collected during aircraft flights.

REPORT ORGANIZATION

Section 2 contains a brief description of the Houston monitoring program. The organization and contents of the archive are given in Section 3. Appendices A through D provide detailed catalogs of the data available. The appendices contain inventories that will help an analyst determine which stations or dates are best described by the available data.

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*SAROAD is an acronym for Storage and Retrieval of Aerometric Data, which is a standard data-handling method devised by the U.S. Environmental Protection Agency (EPA, 1971).

SECTION 2

DESCRIPTION OF MONITORING PROGRAM

The monitoring program obtained a comprehensive data base for the Houston area that is suitable for use with photochemical air-quality simulation models as well as for data analysis aimed at characterizing Houston's air quality.

The sampling program (both HOMS and HACS) was conducted by several research teams during the period 15 September to 12 October 1978, gathering data on air quality and meteorological variables at 24 locations in the Houston area. The sampling program operated 17 permanent ground sites with 24-hour continuous data, 3 mobile laboratories with 12-hour continuous data (0600-1800 CST), and 1 fixed-wing aircraft. Table 1 shows the site number, name, address, UTM (Universal Transverse Mercator) coordinates, the agency responsible for operating the monitoring station, and the parameters monitored at each site. Figure 1 shows the location of the monitoring sites; the site numbers refer to those in Table 1. The rectangle in Figure 1 defines the boundaries of the modeling region; the UTM coordinates of the origin of the modeling region are 240 km E and 3270 km N. The rectangle is approximately centered on downtown Houston.

The data were reduced to card or magnetic tape and edited. Subsequently, all the data (except the data from the acoustic sounder that are available from Washington State University) were merged into the master file at the SRI computer center. The master data file was organized, written, and stored on the tapes that are described in the following section of this report.

TABLE 1. SITES FOR 1978 HOUSTON MONITORING PROGRAM

Site No.	Site Name	Operating Agency	Parameters Measured	UTM Coordinates (m)
1	Aldine	Texas Air Control Board (TACB)	O_3, NO, NO_x, NO_2, SO_2, THC, CH_4, NMHC, CO, wind, temperature	275473E 3310112N
2	Mae Drive	TACB	Same as for Site 1, plus b_{scat} and detailed hydrocarbons	285303E 3295162N
3	Crawford	City of Houston	O_3, NO, NO_x, NO_2, THC, CH_4, NMHC, CO, detailed hydrocarbons, aldehydes	271648E 3293708N
4	Clinton	City of Houston	O_3, SO_2, THC, CH_4, NMHC, CO, TS, aldehydes	282382E 3291429N
5	Parkhurst	City of Houston	O_3, NO, NO_x, NO_2, THC, CH_4, NMHC, CO, detailed hydrocarbons, aldehydes	279100E 3303046N
6	Lang	City of Houston	O_3, NO, NO_x, NO_2, THC, detailed hydrocarbons	259960E 3301249N
7	Darlinghurst	City of Houston	O_3, THC	261000E 3281000N
8	Fuqua	City of Houston	O_3, NO, NO_x, NO_2, THC, CH_4, NMHC, CO, aldehydes	279296E 3278089N
9	Hornwood	EPA	O_3	258000E 3289000N
10	Pasadena	Houston Light and Power (HLP)	O_3, NO, NO_x, SO_2, wind, detailed hydrocarbons, temperature, dewpoint	282000E 3289000N
11	Channelview	HLP	Same as Site 10 without detailed hydrocarbons	286000E 3295000N
12	Seabrooke	EPA	O_3, NO, NO_x, NO_2, detailed hydrocarbons	308000E 3276000N
13	Highlands	EPA	O_3, NO, NO_x, NO_2, SO_2, wind, temperature, dewpoint, solar radiation, CO, b_{scat}, aerosols	303000E 3301000N
14	Canino	EPA	NO, NO_x, NO_2, SO_2, CO, b_{scat}	263000E 3315000N
15	Westhollow	Shell Oil Co.	O_3, NO, NO_x, NO_2, wind, CO, dewpoint, temperature, solar radiation, detailed hydrocarbons	244323E 3294203N
16	Beasley	Monsanto	O_3	216421E 3269082N
17	Pearland	Washington State University (WSU)	O_3, NO, NO_x, NO_2, CH_4, NMHC, CO, dewpoint, UV, wind, temperature, detailed hydrocarbons, freon, CCl_4, methylchloroform, pressure, pibal	280000E 3274000N
18	Sheldon	WSU	O_3, NO, NO_2, acoustic sounder, detailed hydrocarbons, wind, temperature, dewpoint, PAN	295000E 3308000N
19	Hobby	EPA	Same as Site 13	279700E 3280200N

TABLE 1 (concluded)

Site No.	Site Name	Operating Agency	Parameters Measured	UTM Coordinates (m)
20	Jackrabbit	EPA	O_3, NO, NO_x, NO_2, PAN, SO_2, TS, THC, CH_4, NMHC, CO, b_{scat}, temperature, relative humidity, detailed hydrocarbons, freon, CCl_4, pressure, UV, VIS	252625E 3315675N
21	Alief	EPA	Same as Site 13 with UV but without CO	248600E 3289000N
22	Baytown	EPA	O_3, NO, NO_x, NO_2, SO_2, CO, b_{scat}	309000E 3295000N
23	Stude Park	EPA	Same as Site 13 with UV but without CO	269600E 3296700N
24	MacGregor	City of Houston	THC, wind, precipitation	268603E 3290782N
25	Radian Office	Radian Corp.	Pilot balloon	264780E 3298975N

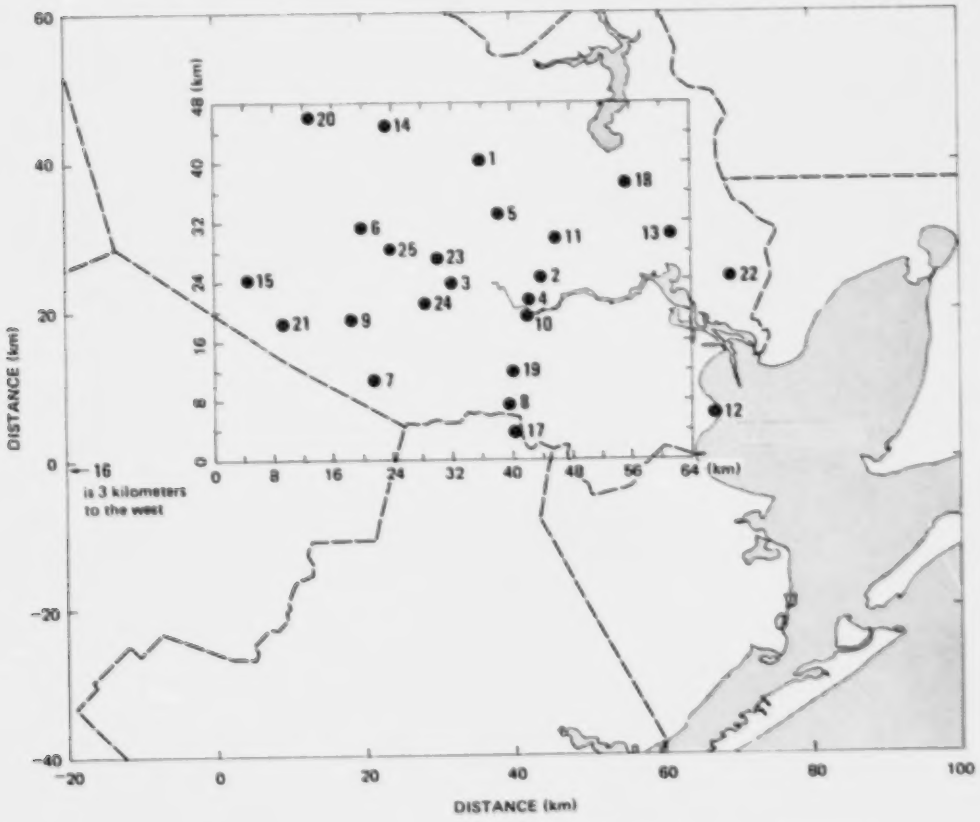

Figure 1. Location of the monitoring sites used during the 1978 Houston monitoring program.

Site numbers are keyed to Table 1; rectangle defines the boundaries of area to be modeled.

SECTION 3

MASTER FILE ORGANIZATION

OVERVIEW

The data base is divided into two distinct types, a daily data base and a special data base. All data in the daily data base are in EPA SAROAD format. This was done to maintain a uniform format that is understandable and acceptable to most users, although all the data from this field study are not found in the EPA's SAROAD master file. Many of the data from this field study are available only in the data base described in this report. The daily data base is organized with the data from all reporting stations for each day grouped in a single file, so that all the data for a particular day are available with a minimum of searching. The daily data are on the first of the two reels of the archive.

The special data file includes aerosol data, hydrocarbon bag sample data, measurements obtained from aircraft, and pibal and tethersonde data. These data are stored on the second of two magnetic tapes. The formats on this tape vary according to the data involved. The files are self-documenting; the header records for each file explain the record structure and provide the information needed to decipher the record.

There are six categories of special data in the archive:

(1) Ground-level detailed hydrocarbon data

(2) Aircraft-collected gaseous and meteorological data

(3) Aircraft-collected detailed hydrocarbon data

(4) Pibal data

(5) Tethersonde data

(6) Aerosol data.

The data categories appear in the special data archive in the order shown. The file structure for each category is described below.

STRUCTURE AND FORM OF DAILY DATA BASE (TAPE 1)

The daily data are stored on a single, 2400-ft reel of magnetic tape. The data are organized by date, parameter, and site, with a separate file for each of the 28 days from 15 September through 12 October 1978. The data in

these files is in EPA SAROAD format, shown in Figure 2. Further information about this format is available from the SAROAD User's Manual (EPA, 1971).* Each of the 28 files is identical in form, although not all the monitoring stations operated every day. The header record(s) in each file contains general information about the content, format, and codes of the data.

Table 2 shows header records for the daily data. The numbers at the upper left-hand corner represent, from left to right, the date that this file represents (year, month, day) and the number of physical records occupied by the header record. The format for these numbers is (3I2, I3). This example is for the first file, which corresponds to 15 September 1978 (780915). The header record occupies two physical records (002), which correspond to 80 card images or lines. Hence the actual data for 15 September 1978 begin with the third physical record. It should be noted that the SAROAD format for recording hourly averages requires two cards to span one 24-hour day or 12 hourly averages per card or logical record. The file number, the associated date, and number of blocks for that file are shown in Table 3. The last block in each file is blank filled to preserve a constant block length of 40 logical records (3200 characters) per block.

The original NO, NO_2, NO_x, and O_3 data for the Jackrabbit site were found to be inaccurate because of a discrepancy in the concentration of the calibration gas (Lonneman, 1980).† The error has been eliminated from the data contained in the archive, which have been corrected by multiplying the original data by the factor 85/108.

STRUCTURE AND FORM OF SPECIAL DATA BASE (TAPE 2)

Table 4 shows the types of data included on the second tape (2400 ft) and the file structure for each data type. As with the first tape, each file has header records that describe the file and its structure. Brief descriptions of the files are given in the following sections.

Ground-Level Detailed Hydrocarbon Data

Bag samples were analyzed for hydrocarbon at the ground-level sites listed in Table 5. The data in ppbC include 131 species (92 known and 39 unknown; the latter are included in case they are identified in future analyses). The species and their accompanying species identification code are listed in Table 6. Data numbered 200-232 are data that are included only in the Washington State University analyses.

Referring to the logical record format in Table 6, it can be seen that each record begins with a two-digit record sequence number. The record sequence number defines the hydrocarbon species for a particular record. The

*U.S. Environmental Protection Agency (1971): "SAROAD User's Manual," APTD-0663 (July).

†Lonneman, W. (1980): Personal communication.

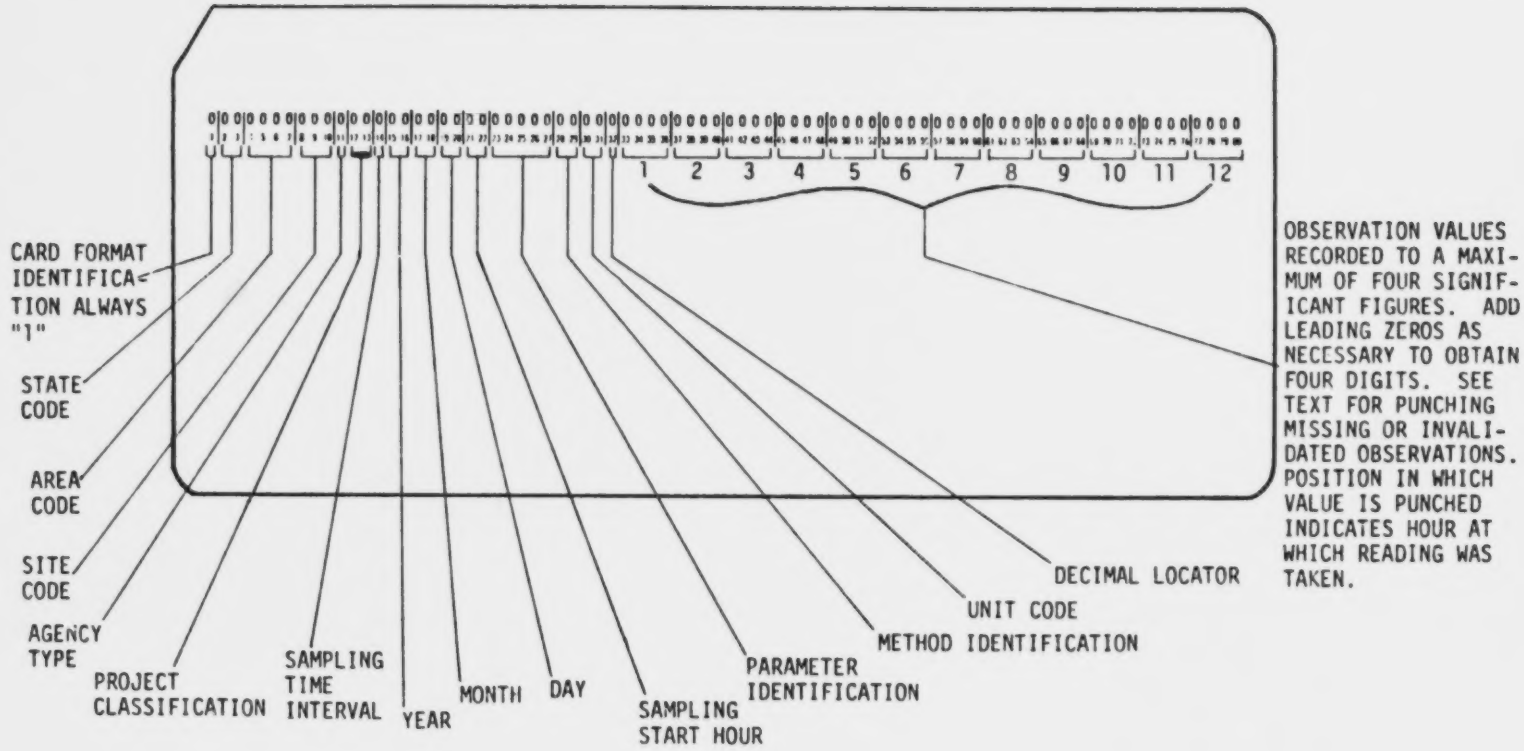
1 2 3 4 5 6 7 8 9 10 11 12
CARD FORMAT IDENTIFICATION ALWAYS "1"
STATE CODE
AREA CODE
SITE CODE
AGENCY TYPE
PROJECT CLASSIFICATION
SAMPLING TIME INTERVAL
YEAR
MONTH
DAY
SAMPLING START HOUR
PARAMETER IDENTIFICATION
METHOD IDENTIFICATION
UNIT CODE
DECIMAL LOCATOR
OBSERVATION VALUES RECORDED TO A MAXIMUM OF FOUR SIGNIFICANT FIGURES. ADD LEADING ZEROS AS NECESSARY TO OBTAIN FOUR DIGITS. SEE TEXT FOR PUNCHING MISSING OR INVALIDATED OBSERVATIONS. POSITION IN WHICH VALUE IS PUNCHED INDICATES HOUR AT WHICH READING WAS TAKEN.

Figure 2. Card format used for data recorded at 1-, 2-, 3-, 4-, 6-, 8-, and 12-hour intervals.

TABLE 2. SAMPLE HEADER RECORD FOR DAILY DATA

```
780915002**********************************************************************
          SAROAD TYPE DATA - GROUND LEVEL HOURLY AVERAGES
                  ORDERED BY:
                              PARAMETER
                                 SITE
       HOUSTON AIR QUALITY DATA - SEPTEMBER 15 - OCTOBER 12, 1978
**********************************************************************
```

STATION CODES

SITE NO.	NAME	SAROAD CODE	SITE NO.	NAME	SAROAD CODE
1	ALDINE	2330024	13	HIGHLANDS	9999013
2	MAE DRIVE	2560034	14	CANINO	9999014
3	CRAWFORD	2560037	15	WESTHOLLOW	9999004
4	CLINTON	2560035	16	BEASLEY	9999033
5	PARKHURST	2560038	17	PEARLAND	9999017
6	LANG	2560011	18	SHELDON	9999018
7	DARLINGHURST	9999007	19	HOBBY	9999020
8	FUQUA	2560039	20	JACKRABBIT	9999010
9	HORNWOOD	9999009	21	ALIEF	9999021
10	PASADENA	9999001	22	BAYTOWN	9999022
11	CHANNELVIEW	9999011	23	STUDE PARK	9999023
12	SEABROOKE	9999012	24	MAC GREGOR	2560007

LOGICAL RECORD STRUCTURE - 80 CHAR/REC, 40 REC/BLOCK

```
1TTSSSSSSSAJJ1YYMMDDHHPPPPPOOUUEXXXXYYYYXXXXYYYYXXXXYYYY ...ETC

          1 = 1
         TT = STATE CODE (HERE TEXAS = 45)
    SSSSSSS = SAROAD SITE CODE
          A = AGENCY CODE
         JJ = PROJECT CLASSIFICATION CODE
     YYMMDD = DATE (YEAR, MONTH, DAY)
         HH = BEGINNING HOUR FOR THIS RECORD (EITHER 00 OR 12)
      PPPPP = PARAMETER CODE
         OO = METHOD OF MEASURE
         UU = UNIT OF MEASURE
          E = EXPONENT
       XXXX
       YYYY = DATA VALUES (TWELVE 4-COLUMN FIELDS)
```

****

TABLE 3. FILE CONTENTS FOR GROUND-LEVEL HOURLY AVERAGES (Tape 1)

Tape File Number	Date	Number of Blocks/File
1	15 Sep 78	4
2	16 Sep 78	4
3	17 Sep 78	4
4	18 Sep 78	5
5	19 Sep 78	5
6	20 Sep 78	5
7	21 Sep 78	5
8	22 Sep 78	5
9	23 Sep 78	5
10	24 Sep 78	5
11	25 Sep 78	5
12	26 Sep 78	6
13	27 Sep 78	6
14	28 Sep 78	6
15	29 Sep 78	6
16	30 Sep 78	6
17	1 Oct 78	6
18	2 Oct 78	6
19	3 Oct 78	6
20	4 Oct 78	6
21	5 Oct 78	6
22	6 Oct 78	6
23	7 Oct 78	6
24	8 Oct 78	6
25	9 Oct 78	6
26	10 Oct 78	5
27	11 Oct 78	5
28	12 Oct 78	5

TABLE 4. CONTENTS OF SPECIAL DATA TAPE (Tape 2)

Type of Data	File Numbers
Ground-level detailed hydrocarbons	1-28
Aircraft non-hydrocarbon data	29-48
Aircraft detailed hydrocarbon analyses	49-64
Pilot balloon data	65-91
Tethersonde data	92-106
Aerosol data	107-133

TABLE 5. HYDROCARBON MONITORING SITES

Site Number	Site Name	SAROAD Number
2	Mae Drive	2560034
3	Crawford	2560037
5	Parkhurst	2560038
6	Lang	2560011
10	Pasadena	9999001
12	Seabrooke	9999012
15	Westhollow	9999004
17	Pearland	9999017
18	Sheldon	9999018
20	Jackrabbit	9999010
35	Washburn Tunnel	None
40	Helicopter	None

TABLE 6. SAMPLE HEADER RECORD FOR GROUND-LEVEL DETAILED HYDROCARBON DATA

```
780915002**********************************************************************
                    HYDROCARBON DATA FILE
**********************************************************************
      HOUSTON AIR QUALITY DATA - SEPTEMBER 15 - OCTOBER 12,1978
----------------------------------------------------------------------
         LOGICAL RECORD FORMAT - 80 CHAR/RECORD, 40 REC/BLOCK

   IISSHHHHHYYMMDDBBEEXXXX.XYYYY.YXXXX.XYYYY.YXXXX.XYYYY.Y ...ETC

          II = RECORD SEQUENCE NUMBER (FOR DETERMINING HYDROCARBON CODES)
          SS = SITE NUMBER
       HHHHH = HEIGHT
      YYMMDD = DATE (YEAR, MONTH, DAY)
          BB = BEGINNING HOUR
          EE = ENDING HOUR
        XXXX.X
        YYYY.Y = DATA VALUES (6 COLUMN FIELD, 10 VALUES/REC)(PPBC)

-----------------------------------------------------------------------
                        HYDROCARBON CODES
-----------------------------------------------------------------------
  00 ETHANE                    34 PROPIONALDEHYDE          66 UNKNOWN 20
  01 ETHYLENE                  35 ACETONE                  67 TOLUENE
  02 PROPANE                   36 3,3 DIMETHYLPENTANE      68 UNKNOWN 21
  03 ACETYLENE                 37 CYCLOHEXANE              69 NONANE
  04 ISOBUTANE                 38 2 METHYLHEXANE           70 UNKNOWN 22
  05 N-BUTANE                  39 2,3 DIMETHYLPENTANE      71 UNKNOWN 23
  06 PROPYLENE                 40 3 METHYLHEXANE           72 UNKNOWN 24
  07 ISOPENTANE                41 UNKNOWN 3                73 UNKNOWN 25
  08 N-PENTANE                 42 1 CIS 3 DIMETHYL-        74 UNKNOWN 26
  09 ISOBUTANE                      CYCLOPENTANE           75 UNKNOWN 27
  10 N-BUTANE                  43 2,2,4,TRIMETHYL-         76 UNKNOWN 28
  11 ISOBUTYLENE                    PENTANE                77 UNKNOWN 29
  12 T-BUTENE-2                44 1 TRANS 3 DIMETHYL-      78 ETHYBENZENE
  13 C-BUT-2+BUTADIENE              CYCLOPENTANE           79 P-XYLENE
  14 ISOPENTANE                45 N-HEPTANE                80 M-XYLENE
  15 N-PENTANE                 46 METHYLCYCLOHEXANE        81 N DECANE
  16 PENTENE                   47 UNKNOWN 4                82 O XYLENE
  17 2-METHYLBUTENE-1          48 UNKNOWN 5                83 UNKNOWN 32
  18 T-PENTENE-2               49 UNKNOWN 6                84 UNKNOWN 33
  19 C-PENTENE-2               50 UNKNOWN 7                85 UNKNOWN 34
  20 2 METHYLBUTENE-2          51 UNKNOWN 8                86 ISOPROPYL-
  21 ACETALDEHYDE              52 UNKNOWN 9                    BENZENE
  22 CYCLOPENTANE              53 BENZENE                  87 UNKNOWN 35
  23 2 METHYLPENTANE           54 UNKNOWN 10               88 N-PROPYLBENZENE
  24 3-METHYLPENTANE           55 UNKNOWN 11               89 M AND P-ETHYLTOLUENE
  25 4 METHYLPENTENE-2         56 UNKNOWN 12               90 ISOBUTYLBENZENE
  26 N-HEXANE                  57 TRANS OCTENE 4 +         91 1,3,5 TRIMETHYLBENZENE
  27 HEXENE-1                      THIOPHENE               92 O-ETHYLTOLUENE
  28 UNKNOWN 1                 58 UNKNOWN 13               93 SEC BUTYLBENZENE
  29 T-HEXENE-3                59 UNKNOWN 14                  +UNDECANE
  30 2,4 DIMETHYLPENTANE       60 UNKNOWN 15               94 1,2,4 TRIMETHYLBENZENE
  31 METHYLCYCLOPENTANE        61 UNKNOWN 16               95 UNKNOWN 36
  32 CIS-HEXENE-2              62 UNKNOWN 17               96 ISOPROPYLTOLUENE
  33 UNKNOWN 2                 63 UNKNOWN 18               97 1,4 DIETHYLBENZENE
                               64 UNKNOWN 19               98 1,2,3 TRIMETHYLBENZENE
                               65 4,4 DIMETHYLHEPTANE      99 1,3 DIETHYLBENZENE
 100 1,2 DIETHYLBENZENE       204 TOTAL PARAFFINS         220 2,3,4-TRIMETHYLPENTANE
 101 M-BUTYLBENZENE           205 PERCENT PARAFFINS       221 2,3-DIMETHYLHEXANE
 102 UNKNOWN 37               206 TOTAL AROMATICS         222 2-METHYLHEPTANE
 103 UNKNOWN 38               207 PERCENT AROMATICS       223 3-ETHYLHEXANE
 104 UNKNOWN 39               208 BLANK                   224 N-OCTANE
 105 UNKNOWN 40               209 1-BUTENE                225 ETHYLCYCLOHEXANE
 106 UNKNOWN 41               210 I-BUTENE                226 STYRENE
 107 BLANK                    211 CYCLOPENTENE            227 N-NONANE
 108 BLANK                    212 2,3-DIMETHYLBUTANE      228 1-PROPYLBENZENE
 109 BLANK                    213 2-METHYLPENTANE         229 P-ETHYLTOLUENE
 200 TOTAL NONMETHANE HC      214 C-4-METHYL-2-PENTENE    230 M-ETHYLTOLUENE
 201 TOTAL UNKNOWNS           215 N-HEXENE                231 METHYLSTYRENE
 202 TOTAL OLEFINS            216 T-2-HEXENE              232 P AND M XYLENE
 203 PERCENT OLEFINS          217 C-2-HEXENE
                              218 2,2,3-TRIMETHYLPENTANE
                              219 2,4-DIMETHYLHEXANE

    110-129 ARE FOR ADDITIONAL UNKNOWN COMPOUNDS.  TAKEN TWO AT A TIME,
  (110,111)ETC, THE FIRST POSITION IS THE COMPOUND NUMBER (00-109)
THAT APPEARED BEFORE IT, THE SECOND IS THE CONCENTRATION IN PPBC.

**********************************************************************
```

two digits of this number give the hundreds and tens digits of the hydrocarbon code for the ten values contained on that record. The third and fourth digits of each logical record define the site number. The next sequence of numbers gives height, date, and sampling time (CST). Finally, there follow ten hydrocarbon species concentrations (ppbC).

Take as an example the record:

0317 07809150609 3.0 10.5-999.9-999.9-999.9-999.9-999.9-999.9
12.0-999.9

The first (hundreds) digit is 0 (zero) and the second (tens) digit is 3 (three), so the ten concentrations on this record are for species numbers 30 through 39. From Table 7 or from the header record in Table 6, we see that numbers 30-39 correspond to hydrocarbon species 2,4 dimethylpentane through 2,3 dimethylpentane. This record then contains data for hydrocarbon species 30-39 for site 17 at ground level on 15 September 1978 (780915) for time 0600-0900 hours. We see that data were available only for species 30, 31, and 38; others were missing (denoted by -999.9). The zero preceding the year (i.e., 078) indicates that the height is zero, i.e., ground level.

TABLE 7. KEY FOR DECIPHERING RECORD SEQUENCE NUMBERS

Record Sequence Number	Hydrocarbon Numbers	Hydrocarbon Species
00	00-09	Ethane - Isobutane
01	10-19	N-butane - C-pentene-2
02	20-29	Acetaldehyde - T-hexene-3
03	30-39	2,4 Dimethylpentane - 2,3 Dimethylpentane
04	40-49	3 Methylhexane - Unknown 6
05	50-59	Unknown 7 - Unknown 14
06	60-69	Unknown 15 - Nonane
07	70-79	Unknown 22 - P-xylene
08	80-89	M-xylene - M and P-ethyltoluene
09	90-99	Isobutylbenzene - 1,3 Diethylbenzene
10	100-109	1,2 Diethylbenzene - Blank
11	110-119	Extra unknowns
12	120-129	Extra unknowns
20	200-209	Total nonmethane HC - 1 Butane
21	210-219	i-Butene - 2,4 Dimethylhexane
22	220-229	2,3,4 Trimethylpentane - P-ethyltoluene
23	230-239	M-ethyltoluene - Blank

From the header record (Table 6) we can see that species isobutane (4), n-butane (5), isopentane (7), and n-pentane (8) are repeated in species numbered 9, 10, 14, and 15, respectively. Species 4 and 5 are the preferred values for isobutane and n-butane, while species 14 and 15 are the preferred values for isopentane and n-pentane. This doubling occurred because different columns were used in the gas chromatograph (GC) when the hydrocarbon sample was analyzed.

The hydrocarbon analysis sometimes encountered gas traces that could not be accounted for by known or unknown common species, but that nevertheless were present. These data (whenever they appear) are presented in "species" 110-129. Here the species number no longer represents a specific hydrocarbon species but is just an accounting scheme. For example, a record might look much like this:

```
1102   0780915609  48.0  14.2  62.0  12.2
                   └─────────┘ └─────────┘
                   First pair  Second pair
```

From the record sequence number we know that these data from Site 2 begin with number 110. The data are recorded in pairs. (In this example the pairs are 110, 111, 112, and 113.) The first number of a pair (e.g., 48 for "species" 110 or 62 for "species" 112) is not a concentration, but is the number of the species that appeared before the unknown on the GC trace. The second number of the pair (in this example, 14.2 or 12.2) gives the concentration for the unknown in ppbC. These data have been included when available; otherwise a -999.9 is used.

This file is ordered by day, site, and time, with a file for each day (and header records on each file). Data may be available from one to twelve times per day. All data are in ppbC. Data record structure can be found in the header record reproduced in Table 6. The file descriptions can be found in Table 8.

Aircraft-Collected Gaseous and Meteorological Data

The aircraft data collected by Washington State University (WSU) are of two forms, continuous gaseous and meteorological data from the flight, which are recorded as 10-second averages, and detailed hydrocarbon samples, discussed in the following section. Table 9 gives the record structure for the gaseous and meteorological aircraft data files. The header record for each file contains the same information. The data are ordered by day and flight number; individual days are in separate files. Each record contains the flight number and the date and time of the measurement. Table 10 describes the files, the dates, and the number of blocks per file.

Aircraft-Collected Detailed Hydrocarbon Data

The WSU detailed hydrocarbon analyses are recorded as shown in Table 11. Similar information is also in the header block preceding each aircraft hydrocarbon file. The data are ordered by date with a single day on one file.

TABLE 8. DETAILED GROUND-LEVEL HYDROCARBON ANALYSIS

Tape File Number	Date	Number of Blocks/File
1	15 Sep 78	1
2	16 Sep 78	2
3	17 Sep 78	5
4	18 Sep 78	6
5	19 Sep 78	5
6	20 Sep 78	7
7	21 Sep 78	7
8	22 Sep 78	6
9	23 Sep 78	7
10	24 Sep 78	6
11	25 Sep 78	6
12	26 Sep 78	7
13	27 Sep 78	6
14	28 Sep 78	1
15	29 Sep 78	6
16	30 Sep 78	7
17	1 Oct 78	8
18	2 Oct 78	6
19	3 Oct 78	3
20	4 Oct 78	4
21	5 Oct 78	6
22	6 Oct 78	3
23	7 Oct 78	3
24	8 Oct 78	5
25	9 Oct 78	8
26	10 Oct 78	9
27	11 Oct 78	8
28	12 Oct 78	15
29	13 Oct 78	2

TABLE 9. RECORD STRUCTURE FOR GASEOUS AND METEOROLOGICAL AIRCRAFT DATA FILES

```
780915001**********************************************************************
                        AIRCRAFT   DATA
              WASHINGTON STATE UNIVERSITY (WSU) DATA
          (OZONE, NITRIC OXIDE, NITROGEN DIOXIDE, COND. NUCLEI,
                TEMPERATURE AND RELATIVE HUMIDITY)
**********************************************************************

      LOGICAL RECORD STRUCTURE - 80 CHAR/REC, 40 RECORDS/BLOCK

   MMDDYYFFHHIISSAAAAAOOONNPPBBCCCCCCBBBTTRRZZHHIISSAAAAAOOONNPPBB
                    CCCCCCBBBTTRRZZ

          MM = MONTH
          DD = DAY
          YY = YEAR
          FF = FLIGHT NUMBER
          HH = HOUR
          II = MINUTES
          SS = SECONDS
       AAAAA = ALTITUDE (FEET MSL)
         OOO = OZONE (PPB)
          NN = NITRIC OXIDE (PPB)
          PP = NITROGEN DIOXIDE (PPB)
           B = BLANK SPACE
      CCCCCC = CONDENSATION NUCLEI (CN/CC)
          TT = TEMPERATURE (DEGREES F)
          RR = RELATIVE HUMIDITY (PERCENT)
          ZZ = COMMENTS (NOT USED)

               IN THE DATA: A LETTER Y MEANS THE DATA WAS QUESTIONABLE
                            A LETTER A MEANS THE NO OR NO2 WAS GREATER
                              THAN 100 PPB

**********************************************************************
```

TABLE 10. AIRCRAFT GASEOUS DATA FILE DESCRIPTION

Tape File Number	Date	Number of Blocks/File
30	15 Sep 78	10
31	16 Sep 78	10
32	17 Sep 78	21
33	18 Sep 78	13
34	19 Sep 78	25
35	20 Sep 78	34
36	23 Sep 78	9
37	24 Sep 78	27
38	25 Sep 78	26
39	26 Sep 78	13
40	27 Sep 78	8
41	28 Sep 78	3
42	29 Sep 78	17
43	30 Sep 78	27
44	1 Oct 78	22
45	2 Oct 78	27
46	4 Oct 78	6
47	5 Oct 78	21
48	7 Oct 78	6

TABLE 11. SAMPLE HEADER RECORD FOR AIRCRAFT HYDROCARBON DATA

```
780915002**********************************************************************
                    SURFACE HYDROCARBON DATA FILE
**********************************************************************
      HOUSTON AIR QUALITY DATA - SEPTEMBER 15 - OCTOBER 12,1978
----------------------------------------------------------------------
                          STATION CODES
 SITE                    SAROAD          SITE                    SAROAD
 NO.        NAME         CODE            NO.        NAME         CODE
----------------------------------------------------------------------
   1     ALDINE          2330024          13     HIGHLANDS       9999013
   2     MAE DRIVE       2560034          14     CANINO          9999014
   3     CRAWFORD        2560037          15     WESTHOLLOW      9999004
   4     CLINTON         2560035          16     BEASLEY         9999033
   5     PARKHURST       2560038          17     PEARLAND        9999017
   6     LANG            2560011          18     SHELDON         9999018
   7     DARLINGHURST    9999007          19     HOBBY           9999020
   8     FUQUA           2560039          20     JACKRABBIT      9999010
   9     HORNWOOD        9999009          21     ALIEF           9999021
  10     PASADENA        9999001          22     BAYTOWN         9999022
  11     CHANNELVIEW     9999011          23     STUDE PARK      9999023
  12     SEABROOKE       9999012          24     MAC GREGOR      2560007
----------------------------------------------------------------------
----------------------------------------------------------------------

        LOGICAL RECORD FORMAT - 80 CHAR/RECORD, 40 REC/BLOCK

  IISSHHHHHYYMMDDBBEEXXXX.XYYYY.YXXXX.XYYYY.YXXXX.XYYYY.Y ...ETC

          II = RECORD SEQUENCE NUMBER (FOR DETERMINING HYDROCARBON CODES)
          SS = SITE NUMBER
       HHHHH = HEIGHT
      YYMMDD = DATE (YEAR, MONTH, DAY)
          BB = BEGINNING HOUR
          EE = ENDING HOUR
       XXXX.X
       YYYY.Y = DATA VALUES (6 COLUMN FIELD, 10 VALUES/REC)(PPBC)

----------------------------------------------------------------------
                          HYDROCARBON CODES
----------------------------------------------------------------------
 00 ETHANE                    34 PROPIONALDEHYDE          68 UNKNOWN 20
 01 ETHYLENE                  35 ACETONE                  67 TOLUENE
 02 PROPANE                   36 3,3 DIMETHYLPENTANE      68 UNKNOWN 21
 03 ACETYLENE                 37 CYCLOHEXANE              69 NONANE
 04 ISOBUTANE                 38 2 METHYLHEXANE           70 UNKNOWN 22
 05 N-BUTANE                  39 2,3 DIMETHYLPENTANE      71 UNKNOWN 23
 06 PROPYLENE                 40 3 METHYLHEXANE           72 UNKNOWN 24
 07 ISOPENTANE                41 UNKNOWN 3                73 UNKNOWN 25
 08 N-PENTANE                 42 1 CIS 3 DIMETHYL-        74 UNKNOWN 26
 09 ISOBUTANE                    CYCLOPENTANE             75 UNKNOWN 27
 10 N-BUTANE                  43 2,2,4,TRIMETHYL-         76 UNKNOWN 28
 11 ISOBUTYLENE                  PENTANE                  77 UNKNOWN 29
 12 T-BUTENE-2                44 1 TRANS 3 DIMETHYL-      78 ETHYBENZENE
 13 C-BUT-2+BUTADIENE            CYCLOPENTANE             79 P-XYLENE
 14 ISOPENTANE                45 N-HEPTANE                80 M-XYLENE
 15 N-PENTANE                 46 METHYLCYCLOHEXANE        81 N DECANE
 16 PENTENE                   47 UNKNOWN 4                82 O XYLENE
 17 2-METHYLBUTENE-1          48 UNKNOWN 5                83 UNKNOWN 32
 18 T-PENTENE-2               49 UNKNOWN 6                84 UNKNOWN 33
 19 C-PENTENE-2               50 UNKNOWN 7                85 UNKNOWN 34
 20 2 METHYLBUTENE-2          51 UNKNOWN 8                86 ISOPROPYL-
 21 ACETALDEHYDE              52 UNKNOWN 9                   BENZENE
 22 CYCLOPENTANE              53 BENZENE                  87 UNKNOWN 35
 23 2 METHYLPENTANE           54 UNKNOWN 10               88 N-PROPYLBENZENE
 24 3-METHYLPENTANE           55 UNKNOWN 11               89 M AND P-ETHYLTOLUENE
 25 4 METHYLPENTENE-2         56 UNKNOWN 12               90 ISOBUTYLBENZENE
 26 N-HEXANE                  57 TRANS OCTENE 4 +         91 1,3,5 TRIMETHYLBENZENE
 27 HEXENE-1                     THIOPHENE                92 O-ETHYLTOLUENE
 28 UNKNOWN 1                 58 UNKNOWN 13               93 SEC BUTYLBENZENE
 29 T-HEXENE-3                59 UNKNOWN 14                  +UNDECANE
 30 2,4 DIMETHYLPENTANE       60 UNKNOWN 15               94 1,2,4 TRIMETHYLBENZENE
 31 METHYLCYCLOPENTANE        61 UNKNOWN 16               95 UNKNOWN 36
 32 CIS-HEXENE-2              62 UNKNOWN 17               96 ISOPROPYLTOLUENE
 33 UNKNOWN 2                 63 UNKNOWN 18               97 1,4 DIETHYLBENZENE
                              64 UNKNOWN 19               98 1,2,3 TRIMETHYLBENZENE
                              65 4,4 DIMETHYLHEPTANE      99 1,3 DIETHYLBENZENE
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
100 1,2 DIETHYLBENZENE       204 TOTAL PARAFFINS         220 2,3,4-TRIMETHYLPENTANE
101 M-BUTYLBENZENE           205 PERCENT PARAFFINS       221 2,3-DIMETHYLHEXANE
102 UNKNOWN 37               206 TOTAL AROMATICS         222 2-METHYLHEPTANE
103 UNKNOWN 38               207 PERCENT AROMATICS       223 3-ETHYLHEXANE
104 UNKNOWN 39               208 BLANK                   224 N-OCTANE
105 UNKNOWN 40               209 1-BUTENE                225 ETHYLCYCLOHEXANE
106 UNKNOWN 41               210 I-BUTENE                226 STYRENE
107 BLANK                    211 CYCLOPENTENE            227 N-NONANE
108 BLANK                    212 2,3-DIMETHYLBUTANE      228 I-PROPYLBENZENE
109 BLANK                    213 2-METHYLPENTANE         229 P-ETHYLTOLUENE
200 TOTAL NONMETHANE HC      214 C-4-METHYL-2-PENTENE    230 M-ETHYLTOLUENE
201 TOTAL UNKNOWNS           215 N-HEXENE                231 METHYLSTYRENE
202 TOTAL OLEFINS            216 T-2-HEXENE              232 P AND M XYLENE
203 PERCENT OLEFINS          217 C-2-HEXENE
                             218 2,2,3-TRIMETHYLPENTANE
                             219 2,4-DIMETHYLHEXANE

    110-129 ARE FOR ADDITIONAL UNKNOWN COMPOUNDS.  TAKEN TWO AT A TIME,
  (110,111)ETC.  THE FIRST POSITION IS THE COMPOUND NUMBER (00-109)
THAT APPEARED BEFORE IT,  THE SECOND IS THE CONCENTRATION IN PPBC.

**********************************************************************
```

Table 12 lists the files, dates, and number of blocks per file for the aircraft hydrocarbon data. The data are written in the same format as the surface hydrocarbon analysis data.

TABLE 12. AIRCRAFT COLLECTED DETAILED HYDROCARBON ANALYSIS FILE DESCRIPTION

Tape File Number	Date	Number of Blocks/File
49	15 Sep 78	3
50	16 Sep 78	6
51	18 Sep 78	2
52	19 Sep 78	5
53	20 Sep 78	3
54	23 Sep 78	3
55	24 Sep 78	4
56	25 Sep 78	3
57	26 Sep 78	4
58	29 Sep 78	4
59	30 Sep 78	2
60	1 Oct 78	3
61	2 Oct 78	3
62	4 Oct 78	3
63	5 Oct 78	3
64	7 Oct 78	3

Table 11 indicates that species 4 and 5, and species 7 and 8 (isobutane and n-butane, and isopentane and n-pentane) are repeated as species 9, 10, 14, and 15 respectively. This parallels the format for surface hydrocarbon analysis, which used two different GC columns to measure these four species. Since the aircraft hydrocarbon data of Washington State University do not include species 7, 8, 9, and 10, they are set to -999.9, while species 4, 5, 14, and 15 correspond to the correct data.

Pilot Balloon Wind Data

Table 13 shows the header that introduces each file of pilot balloon (pibal) wind data to describe the record structure and data record types. Each record begins with a three-character descriptor (denoted by PPP in Table 13) that contains the acronym "HAP." This signifies "Houston Area Pibal" and has no other significance. There are three different types of logical records that can be identified by a letter in Column 15. (Its position is marked by the letter "H" in the record structure in Table 13.) The three types of records are angle (A), reduced (R), and temperature (T). Each pibal release will have one or more angle records, and one or more reduced records. It may also contain one or more temperature records, depending on whether the release used a temperature sonde.

TABLE 13. SAMPLE HEADER RECORD FOR PIBAL DATA

```
780915001**********************************************************************
                        PILOT BALLOON DATA
**********************************************************************
                        PIBAL RELEASE SITES
                  01    RADIAN HOUSTON OFFICE
                  02    PEARLAND -- HOMS SITE 17-9999017
 ---------------------  ---------------------------------------------------
         LOGICAL RECORD STRUCTURE - 80 CHAR/REC, 40 REC/BLOCK


  PPPBYYMMDDTTTTHBCSBBXXX.XYYY.YXXX.XYYY.YXXX.XYYY.Y ...ETC

      PPP = DESCRIPTOR  - HAF
        B = BLANK SPACE
   YYMMDD = DATE (YEAR, MONTH, DAY)
     TTTT = TIME OF RELEASE
        H = SECONDARY RECORD DESCRIPTOR (A,R OR T, SEE BELOW)
        C = SEQUENCE NUMBER
        S = SITE NUMBER
    XXX.X = DATA VALUES (5 COLUMN FIELD)
    YYY.Y = DATA VALUES (5 COLUMN FIELD)

     THE SECONDARY COLUMN DESCRIPTOR DESCRIBES WHETHER THE RECORD IS
  ANGLE (A) DATA, OR REDUCED (R) DATA.  IF THIS IS SO THEN THE DATA
  FIELDS ARE DEVIDED INTO DATA PAIRS OF TWO 5 COLUMN FIELDS IN
  THE FORM:
              XXX.XYYY.YXXX.XYYY.YXXX.XYYY.YXXX.XYYY.YXXX.XYYY.Y
               X = AZIMUTHAL ANGLE (FOR A RECORDS)
                   WIND SPEED IN M/S (FOR R RECORDS
               Y = ELEVATION ANGLE (FOR A RECORDS)
                   WIND DIRECTION  (FOR R RECORDS)

     THE FIRST PAIR IS THE DATA AT THE END OF THE FIRST 30 SECONDS OF
  ASCENT, THE SECOND PAIR FOR THE END OF 60 SECONDS AND SO ON.
     THE "T" DATA IS TEMPERATURE-SONDE DATA AND IS DIVIDED INTO
  TWELVE 5 COLUMN FIELDS (DEG. C).  THE FIRST VALUE IS THE TEMPERATURE
  AT THE SURFACE, THE SECOND AT THE 30-SECOND HEIGHT, THE THIRD VALUE
  IS THE 60 SECOND TEMPERATURE AND SO ON.

**********************************************************************
```

The angle and reduced records contain 12 five-column fields divided into pairs. The pairs of values on the angle cards are the azimuthal and elevation angles (in degrees) recorded by the theodolite operator. The pairs of values on the reduced records are the wind speed (m/s) and wind direction (degrees from North). For these two types of records, the first number pair is the data at the end of the first 30 seconds of ascent; the following pairs show the data at the end of 60, 90, 120 seconds, and so on.

The temperature record is also divided into 12 five-column fields; the first value is the surface temperature, the second, the temperature at the 30-second height, the third, the temperature at the 60-second height, etc., continuing until all data for that release are given. Table 14 shows the file structure of the pibal data. The table shows that each file corresponds to one day. Within each file, the pibal data are ordered in time sequence.

TABLE 14. PILOT BALLOON (PIBAL) DATA FILE DESCRIPTION

Tape File Number	Date	Number of Blocks/File
65	15 Sep 78	5
66	16 Sep 78	4
67	17 Sep 78	5
68	18 Sep 78	5
69	19 Sep 78	5
70	20 Sep 78	3
71	21 Sep 78	5
72	23 Sep 78	2
73	25 Sep 78	6
74	26 Sep 78	5
75	27 Sep 78	4
76	28 Sep 78	4
77	29 Sep 78	4
78	30 Sep 78	5
79	1 Oct 78	5
80	2 Oct 78	5
81	3 Oct 78	3
82	4 Oct 78	4
83	5 Oct 78	5
84	6 Oct 78	3
85	7 Oct 78	5
86	8 Oct 78	4
87	9 Oct 78	5
88	10 Oct 78	5
89	11 Oct 78	4
90	12 Oct 78	5
91	13 Oct 78	4

Tethersonde Data

The fifth category on the special data tape is the tethersonde data. Each tethersonde file contains data for one day (see Table 15) ordered sequentially by time. Columns 1 to 10 contain the date and starting time of the tethersonde release. Included in the data are the following parameters: time from start, height in meters above ground level (AGL), pressure (MB), temperature (degrees C), relative humidity (percent), wind speed in m/s, and wind direction (degrees from North). A further description of the data can be found in the header record that precedes each file and is reproduced as Table 16. The numbers in the upper left hand corner of the record are the date and number of records occupied by the header record itself. No header records separate one tethersonde release from another within a file. A new tethersonde release can be identified by the change in the start time located on each logical record.

TABLE 15. TETHERSONDE DATA FILE DESCRIPTION

Tape File Number	Date	Number of Blocks/File
92	19 Sep 78	3
93	20 Sep 78	9
94	21 Sep 78	7
95	23 Sep 78	18
96	25 Sep 78	16
97	26 Sep 78	19
98	27 Sep 78	16
99	29 Sep 78	19
100	30 Sep 78	25
101	2 Oct 78	28
102	3 Oct 78	17
103	4 Oct 78	25
104	5 Oct 78	8
105	7 Oct 78	7
106	9 Oct 78	24

TABLE 16. SAMPLE HEADER RECORD FOR TETHERSONDE DATA

```
780915001**************************************************************************
                        TETHERSONDE DATA RECORDS
**************************************************************************
                           TETHERSONDE SITE

                  01  ENVIROMENTAL QUALITY RESEARCH AREA
                       TWO BLOCKS FROM SEABROOKE - 12 - 9999012

--------------------------------------------------------------------

        LOGICAL RECORD STRUCTURE - 80 CHAR/REC, 40 REC/BLOCK

   YYMMDDEEEEBTTTTBBBBHHHH.HHBBBBPPPP.PPBBBBAA.AABBBBRR.BBBSS.SSBBBCCC.C

         YYMMDD = DATE (YEAR, MONTH, DAY)
           EEEE = START TIME
              B = BLANK SPACE
           TTTT = TIME FROM START (DECIMAL SECONDS)
       HHHH.HH = HEIGHT FROM SURFACE (METERS)
       PPPP.PP = PRESSURE (MB)
         AA.AA = TEMPERATURE (DEGREES C)
           RR. = RELATIVE HUMIDITY (PERCENT)
         SS.SS = WIND SPEED (M/S)
         CCC.C = WIND DIRECTION (DEGREES FROM NORTH)

     A NEW TETHERSONDE READING CAN BE LOCATED BY NOTICING THE CHANGE IN
  THE STARTING TIME.
**************************************************************************
```

Aerosol Data

The Houston Aerosol Characterization Study (HACS) contains the five types of aerosol data shown in Table 17. The data types can be identified in the file by the first three characters of the logical record. Each file contains data for one day, and may include all five types of aerosol measurement. Table 17 shows the record types, the units, and the data fields. Table 18 lists the file numbers, the dates, and the number of blocks in each file.

The aerosol data collected by EMI, Inc. were obtained using a mobile laboratory that traveled to various locations around Houston. Hence, the EMI aerosol data has as its site number in Columns 17 and 18 a blank or the symbol 00. The daily location of the EMI mobile laboratory is given in Table 19.

The first 20 columns in each of the aerosol records contain identification information as follows:

Columns	Contents
1-3	Record identification
4	Blank
5-10	Date, YYMMDD
11-14	Time, HHMM
15-16	Blank
17-18	Site number
19	Secondary record identifier
20	Card sequence number

Nephelometer and Condensation Nuclei Counter (CNC) Data

Each record contains one observation each from the CNC, the unheated nephelometer, and the heated nephelometer, with units of No./cm^3, M^{-1}, and M^{-1}, respectively. A value of 0 represents missing data.

Optical Particle Counter (OPC) Data

Each OPC observation has 12 output records, each consisting of 19 dN/dlogD values, 19 dS/dlogD values, and 19 dV/dlogD values, with units of No./cm^3, $\mu m^2/cm^3$, and $\mu m^2/cm^3$, respectively. These different records were identified from the secondary record identifier in Column 19, Q, R, or S, respectively.

Microbarograph Data

The microbarograph data deviate slightly from the 20-column identification field in that the site code is expressed with the data. The data are in 6 ten-column data fields, each of which is subdivided into a two-digit site code and five-character pressure field. The time in the identification field is the ending time of the first pressure value of the record. Each succeeding

TABLE 17. SAMPLE HEADER RECORD FOR AEROSOL DATA

```
780915002**********************************************************************
                    AEROSOL CHARACTERIZATION DATA
**********************************************************************
        HOUSTON AIR QUALITY DATA - SEPTEMBER 15 - OCTOBER 12,1978
----------------------------------------------------------------------
                              STATION CODES
  SITE                    SAROAD          SITE                    SAROAD
   NO.        NAME         CODE             NO.        NAME         CODE
 ------------------------------------------------------------------------
     1      ALDINE        2330024           13      HIGHLANDS     9999013
     2      MAE DRIVE     2560034           14      CANINO        9999014
     3      CRAWFORD      2560037           15      WESTHOLLOW    9999004
     4      CLINTON       2560035           16      BEASLEY       9999033
     5      PARKHURST     2560038           17      PEARLAND      9999017
     6      LANG          2560011           18      SHELDON       9999018
     7      DARLINGHURST  9999007           19      HOBBY         9999020
     8      FUQUA         2560039           20      JACKRABBIT    9999010
     9      HORNWOOD      9999009           21      ALIEF         9999021
    10      PASADENA      9999001           22      BAYTOWN       9999022
    11      CHANNELVIEW   9999011           23      STUDE PARK    9999023
    12      SEABROOKE     9999012           24      MAC GREGOR    2560007

------------------------------------------------------------------------
------------------------------------------------------------------
        LOGICAL RECORD FORMAT - 80 CHAR/REC, 40 REC/BLOCK

   LLLBYYMMDDTTTTBBSSRCEEEEEEEEEEFFFFFFFFFFEEEEEEEEEEFFFFFFFFFF..ETC
    FOR BAROGRAPH       BBSSBPP.PPBBSSBPP.PPBBSSBPP.PPBBSSPP.PP ...ETC
    FOR PARTICULATES    IIIIINNNNNIIIIINNNNNIIIIINNNNNIIIIINNNNN ...ETC

              LLL = FIRST RECORD DESCRIPTOR (NE1, EA2, OP3, MI4,
                                    SU5, SEE BELOW)
                B = BLANK SPACE
           YYMMDD = DATE(YEAR, MONTH, DAY)
             TTTT = TIME (HOURS, MINUTES)
               SS= SITE NUMBER
                R = SECONDARY RECORD DESCRIPTOR
                C = SECONDARY RECORD NUMBER
       EEEEEEEEEE
       FFFFFFFFFF = DATA VALUES IN E FORMAT (10 COL FIELDS, 6 VAL/REC)
            PP.PP = PRESSURE IN INCHES OF MERCURY
            IIIII
            NNNNN = DATA VALUES (5 COLUMN FIELD, 12 VALUES/RECORD)

                          RECORD DESCRIPTORS

       NE1 = CNC AND NEPHELOMETER DATA.  ONE RECORD PER PIECE OF DATA.
             FIRST VALUE IS CNC, SECOND IS THE UNHEATED NEPHELOMETER,
             THE THIRD IS THE HEATED NEPHELOMETER.
              MISSING DATA = ZERO.

       EA2 = REDUCED EAA DATA - 10 MINUTE AVERAGES. FOR SUB-RECORD TYPES:
             F = 10 VALUES OF DN/DLOGD (NUMBER/CC)
             G = 10 VALUES OF DS/DLOGD (UM2/CC)
             H = 10 VALUES OF DV/DLOGD (UM2/CC)
             X = CHI SQUARED STATISTICAL INFORMATION
             EMI DATA SITE IS RECORDED AS ZERO.

       OP3 = OPC DATA (OPTICAL PARTICLE COUNT) HAS THREE SUB-RECORD TYPES:
             Q = 19 VALUES OF DN/DLOGD (NUMBER/CC)
             R = 19 VALUES OF DS/DLOGD (UM2/CC)
             S = 19 VALUES OF DV/DLOGD (UM2/CC)
             EMI DATA SITE NUMBER IS RECORDED AS ZERO.

       MI4 = MICROBAROGRAPH DATA - SIX 10-COLUMN FIELDS, EACH 10-COLUMN FIELD
             IS DIVIDED INTO A TWO COLUMN SITE NUMBER, AND A 5-COLUMN
             PRESSURE VALUE.  MISSING DATA = ZERO.

       SU5 = SUSPENDED PARTICULATE DATA - 12 DATA FIELDS, 5 COLUMNS LONG.
             DATA IS FOR A TWELVE HOUR PERIOD.  EACH FIELD REPRESENTS A
             DIFFERENT SITE.
               POSITION AND SITE : 1,2,12,13,14,17,18,19,20,21,22,23

             MISSING DATA IS INDICATED BY A BLANK FIELD.
             ENDING TIME IS RECORDED IN COLUMNS 15-18.
**********************************************************************
```

TABLE 18. AEROSOL CHARACTERIZATION STUDY DATA FILE DESCRIPTION

Tape File Number	Date	Number of Blocks/File
107	15 Sep 78	1
108	16 Sep 78	34
109	17 Sep 78	34
110	18 Sep 78	37
111	19 Sep 78	1
112	20 Sep 78	36
113	21 Sep 78	31
114	22 Sep 78	1
115	23 Sep 78	59
116	24 Sep 78	2
117	25 Sep 78	1
118	26 Sep 78	53
119	27 Sep 78	71
120	28 Sep 78	77
121	29 Sep 78	83
122	30 Sep 78	157
123	1 Oct 78	40
124	2 Oct 78	215
125	3 Oct 78	228
126	4 Oct 78	111
127	5 Oct 78	203
128	6 Oct 78	137
129	7 Oct 78	293
130	8 Oct 78	352
131	9 Oct 78	251
132	10 Oct 78	1
133	11 Oct 78	1

TABLE 19. LOCATION OF EMI AEROSOL TRAILER

Date*	Site Number	Site Name
23 Sep 78	13	Highlands
24 Sep 78	23	Stude Park
26 Sep 78	13	Highlands
27 Sep 78	13	Highlands
28 Sep 78	13	Highlands
29 Sep 78	14	Canino
30 Sep 78	2	Mae Drive
2 Oct 78	2	Mae Drive
3 Oct 78	20	Jackrabbit
4 Oct 78	14	Canino
5 Oct 78	14	Canino
6 Oct 78	14	Canino
7 Oct 78	22	Baytown
8 Oct 78	22	Baytown
9 Oct 78	22	Baytown

*No data taken for 25 Sep and 1 Oct 1978.

pressure value represents the pressure of the next hour. Units are in inches of mercury and a missing value is represented by a zero site.

Suspended Particulate Data

There are only 27 suspended particulate data records. The records are divided into an identification field and 12 data fields. The 12 data fields represent 12 sampling sites and are implicit by position, as shown in Table 20.

TABLE 20. SITE NUMBERS CORRESPONDING TO POSITION OF DATA IN TOTAL PARTICULATE RECORDS

Position	Site Number
1	1
2	2
3	12
4	13
5	14
6	17
7	18
8	19
9	20
10	21
11	22
12	23

The data are given as mass loading over a 12-hour averaging period in micrograms per cubic meter. Missing data are indicated by blank data fields and the beginning time of each run is contained in Columns 11 to 14; ending time is contained in Columns 15 to 18.

Electronic Aerosol Analyzer (EAA) Data

Four different types of Electronic Aerosol Analyzer Data (EAA) records are identified by the secondary record identifier. The reduced EAA data can be identified by the letters F, G, or H, and they are followed respectively by 10 values of dN/dlogD, or 10 values of dS/dlogD, or 10 values of dV/dlogD. The data have been reduced from raw data using the University of Minnesota χ^2 minimization technique. The resulting parameters ($\bar{X}_1$, σ_1, $\bar{X}_2$, σ_2, FRC_1) and the resulting χ^2 values are recorded with the secondary identifier "χ." The units for the reduced data are No./cm^3, $\mu m^2/cm^3$, and $\mu m^2/cm^3$, respectively.

MAGNETIC TAPE DESCRIPTION

The magnetic tapes were delivered to the EPA and the National Technical Inform:tion Service (NTIS) in the following form.

- Two 2400-ft reels
- 9-tracks, 1600 bits per inch
- Extended binary-coded decimal (EBCDIC)
- Blocking factor = 3200 characters/block and 40 logical records/block
- Unlabelled.

Data have been screened and validated by the various research teams and by SRI. Blank and missing data were replaced with -999.9 and data below detectable limits were replaced by 9998. There is no zero-filling of the actual data (e.g., 0020 will appear in the tape as bb20, where b = blank). The last block in each file is blank-filled if necesssary to maintain a constant block length.

SECTION 4

ALDEHYDE DATA

Total aldehydes and formaldehyde concentrations were measured during the HOMS at four test sites by the Environmental Sciences and Emissions Research Lab from Northrop Sciences Center.* The monitoring was performed at the monitoring sites located at Fuqua, Crawford, Parkhurst, and Clinton Drive (see Figure 1), with each location monitored for approximately three days. The monitor was then moved to the next site and resumed monitoring. This gave a total of six days of surveillance at each site during the full monitoring program.

These data are included in Table 21 but are not in the archive data base because of the small amount involved.

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*Houston Field Study, 1978: Formaldehyde and Total Aldehyde, Monitoring Program, Northrop Services, Inc., Research Triangle Park, North Carolina, February 1979.

TABLE 21. HOUSTON ALDEHYDE SAMPLING STUDY (1978)

Site	Date and Day	Time (CDT)	Formaldehyde (ppb)	Total Aldehydes* (ppb)
Fuqua	15 Sep 78 Friday	0800-1000	3.18	—
		1230-1445	1.04	—
	16 Sep 78 Saturday	0735-0935	5.38	—
		1100-1300	7.2	3.75†
	17 Sep 78 Sunday	0657-0913	4.08	4.8
		1000-1200	8.83	14.95
	18 Sep 78 Monday	0640-0900	2.54	8.86
		0917-1300	—	8.35
Crawford	19 Sep 78 Tuesday	0835-1000	—	11.03
		1100-1342	3.42	4.69
		1400-1600	7.06	13.92
	20 Sep 78 Wednesday	0600-0800	5.19	14.87
		0800-1000	4.96	18.97
		1015-1300	11.59	22.2
		1300-1500	9.49	21.5
	21 Sep 78 Thursday	0600-0800	7.28	22.38
		0800-1000	6.95	23.†
		1000-1300	8.72	19.25
		1300-1430	10.6	33.2
Parkhurst	22 Sep 78 Friday	1130-1330	2.76	8.3
		1335-1530	8.61	—
	23 Sep 78 Saturday	0700-0900	6.07	—
		0900-1200	2.98	4.34
		1210-1440	4.52	7.33
	24 Sep 78 Sunday	0800-1000	7.73	8.23
		1030-1230	4.52	4.91
	25 Sep 78 Monday	0625-0825	5.52	—
		0830-1030	5.74	10.4
		1100-1400	5.85	8.77
Clinton Drive	26 Sep 78 Tuesday	0600-0800	6.51	7.81
		0815-1100	4.96	11.8
		1100-1400	8.94	13.2
	27 Sep 78 Wednesday	0600-0900	3.75	6.56
		0920-1216	3.7	4.36
		1225-1510	4.08	6.48
	28 Sep 78 Thursday	0752-0932	11.04	14.28
	29 Sep 78 Friday	0600-0800	1.1	8.05
		0900-1045	1.2	9.5
		1047-1500	5.9	11.81

TABLE 21 (concluded)

Site	Date and Day	Time (CDT)	Formaldehyde (ppb)	Total Aldehydes* (ppb)
Fuqua	30 Sep 78 Saturday	0630-0900	7.18	10.93
		0900-1100	24.62	34.88
		1100-1340	13.8	16.05
	1 Oct 78 Sunday	0645-0850	10.27	17.09
		0900-1100	17.78	28.72
		1100-1250	27.27	36.33
		1300-1445	18.11	29.91
	2 Oct 78 Monday	0600-0830	10.5	11.33
		0845-1115	11.81	16.56
		1130-1335	11.26	15.13
Crawford	3 Oct 78 Tuesday	0600-0825	20.43	30.93
		0835-1030	24.18	29.53
		1035-1230	21.2	34.48
		1235-1435	20.65	25.58
	4 Oct 78 Wednesday	0627-0825	16.78	21.65
		0830-1045	20	28.5
		1052-1315	22.08	31.0
	6 Oct 78 Friday	0610-0825	24.73	–
		0835-1029	23.3	24.15
		1043-1246	22.1	24.1
Parkhurst	7 Oct 78 Saturday	0609-0834	6.07	6.72
		0845-1100	9.49	13.23
		1100-1300	9.27	13.93
	8 Oct 78 Sunday	0614-0835	9.38	–
		0847-1100	12.14	16.25
		1108-1350	15.35	14.9†
	9 Oct 78 Monday	0610-0810	2.76	6.72
		0818-1008	9.49	11.4
		1017-1216	7.73	9.01
Clinton Drive	10 Oct 78 Tuesday	0617-0812	2.2	8.61
		0830-1130	27.6	40.4
		1135-1300	18.55	22.3
		1305-1430	9.6	26.68
	11 Oct 78 Wednesday	0729-0913	6.51	24.82
		0920-1100	6.62	8.86
		1108-1300	6.4	7.8
		1322-1433	4.75	5.9
	12 Oct 78 Thursday	0659-0902	4.3	15.87
		0915-1135	18.88	36.75
		1145-1345	10.82	16.52

*Total Aldehyde results corrected for collection efficiency losses of MBTH stored in excess of one week.

†Possibly questionable data.

APPENDICES

INTRODUCTION

In the appendices that follow, data for the hourly ground-level measurements were divided into categories to facilitate examination. Appendix A is an overall view of the days during which data were recorded. Appendices B, C, and D go further and break down the data by hour, giving each site, day, and parameter a table of its own. These tables include data from the movable laboratories operated by Radian Corp. and EMI. On some days, a mobile laboratory was operated at the same location as a fixed monitor. It is for this reason that some days show more than 24 hours' of data. The trailers can be identified by the project classification code "22" on the daily data.

GLOSSARY OF TERMS AND SAROAD CODES USED IN APPENDICES A THROUGH D

Term	Definition	SAROAD Code
BSCAT	B_{scat} data from nephelometer	11203
CCL_4	carbon tetrachloride	43804
CH_4	methane hydrocarbons	43201
CO	carbon monoxide	42101
DEW	dew point	62103
FREON	fluorocarbons	43811
IRAD	incoming solar radiation	63301
MCHCR	methylchloroform	43814
NMHC	nonmethane hydrocarbons	43102
NO	nitric oxide	42601
NO_2	nitrogen dioxide	42602
NO_x	nitrogen dioxide ($NO+NO_2$)	42603
O_3	ozone	44201
PAN	peroxyacetylnitrate	44301

Term	Definition	SAROAD Code
PRECP	precipitation	65102
PRES	pressure	64101
RH	relative humidity	62201
RS WD	resultant wind direction from vector summation	61104
RS WS	resultant wind speed from vector summation	61103
SO_2	sulfur dioxide	42401
TEMP	temperature	62101
THC	total hydrocarbons	43101
TS	total sulfur	42269
UV	ultraviolet radiation	63302
VIS	visibility	63101
WD	wind direction	61102
WS	wind speed	61101

APPENDIX A

NUMBER OF DAYS PER MONTH A GIVEN PARAMETER WAS MEASURED AT A SPECIFIC SITE

The following table shows the number of days that each parameter was measured at each specific site. For example, the table shows that Site 7 recorded both ozone (O_3) and THC on 12 days in September and 7 days in October. This table gives an overview of the completeness of the data.

TABLE A-1. NUMBER OF DAYS DATA WAS RECORDED PER MONTH

SITE NO.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
NO	SEP	6	17	7	0	4	5	0	3	0	16	16	3	6	0	11	0	16	16	6	16	0	0	5	0
	OCT	12	13	12	0	12	12	0	12	0	12	12	6	0	3	12	0	16	12	0	13	3	3	2	0
NO2	SEP	0	17	7	0	4	5	0	3	0	0	0	6	6	0	11	0	16	16	6	16	0	0	5	0
	OCT	11	13	12	0	12	12	0	12	0	0	0	7	0	3	12	0	6	12	0	13	3	3	2	0
NOX	SEP	0	17	7	0	11	5	0	3	0	16	16	6	6	0	11	0	0	0	6	16	0	0	5	0
	OCT	11	13	12	0	12	12	0	12	0	12	12	7	0	3	12	0	4	0	0	13	3	3	2	0
O3	SEP	16	17	12	4	13	13	12	13	16	16	15	12	6	0	11	16	16	16	6	16	0	0	5	0
	OCT	12	13	12	3	12	7	7	9	12	12	10	12	0	3	12	12	16	12	0	13	3	3	2	0
TS	SEP	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0
	OCT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
SO2	SEP	15	15	0	7	0	0	0	0	0	16	16	0	2	0	0	0	0	0	4	0	0	0	1	0
	OCT	1	11	0	11	0	0	0	0	0	12	12	0	0	1	0	0	0	0	0	1	3	2	1	0
THC	SEP	15	16	16	16	16	13	12	16	0	0	0	0	0	0	0	0	0	0	0	15	0	0	0	15
	OCT	12	10	12	12	12	7	7	12	0	0	0	0	0	0	0	0	0	0	0	12	0	0	0	12
NMHC	SEP	15	16	15	14	15	0	0	7	0	0	0	0	0	0	0	0	11	0	0	13	0	0	0	0
	OCT	12	10	10	12	1	0	0	4	0	0	0	0	0	0	0	0	12	0	0	12	0	0	0	0
CH4	SEP	15	16	15	12	15	0	0	8	0	0	0	0	0	0	0	0	12	0	0	15	0	0	0	0
	OCT	12	10	10	12	1	0	0	5	0	0	0	0	0	0	0	0	12	0	0	12	0	0	0	0
CO	SEP	15	17	15	14	15	0	0	9	0	0	0	0	3	0	11	0	9	0	0	15	0	0	0	0
	OCT	12	11	8	12	0	0	0	6	0	0	0	0	0	3	12	0	12	0	0	13	0	3	0	0
PAN	SEP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	0	0	0	0
	OCT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	12	0	0	0	0
FREON	SEP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	0	0	13	0	0	0	0
	OCT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	0	0	12	0	0	0	0
RS WS	SEP	16	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	OCT	12	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CCL4	SEP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	0	0	13	0	0	0	0
	OCT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	0	0	12	0	0	0	0
RS WD	SEP	16	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	OCT	12	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TABLE A-1 (concluded)

NUMBER OF DAYS DATA WAS RECORDED PER MONTH

SITE NO.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
VIS	SEP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
	OCT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WS	SEP	16	16	0	0	0	0	0	0	0	16	16	0	2	0	11	0	16	16	6	0	0	0	5	15
	OCT	12	12	0	0	0	0	0	0	0	12	12	0	0	0	12	0	15	12	0	0	3	0	2	12
WD	SEP	16	16	0	0	0	0	0	0	0	16	16	0	2	0	11	0	16	16	6	0	0	0	5	15
	OCT	12	12	0	0	0	0	0	0	0	12	12	0	0	0	12	0	14	12	0	0	3	0	2	12
TEMP	SEP	16	16	0	0	0	0	0	0	0	16	16	0	2	0	11	0	16	16	6	16	0	0	5	0
	OCT	12	12	0	0	0	0	0	0	0	12	12	0	0	0	12	0	16	12	0	12	3	0	2	0
DEW	SEP	0	0	0	0	0	0	0	0	0	16	16	0	2	0	10	0	16	15	6	0	0	0	5	0
	OCT	0	0	0	0	0	0	0	0	0	12	12	0	0	0	12	0	16	12	0	0	3	0	2	0
RH	SEP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0
	OCT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0
PRES	SEP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	0	0	6	0	0	0	0
	OCT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0
IRAD	SEP	0	0	0	0	0	0	0	0	0	0	0	0	2	0	10	0	16	0	6	0	0	0	5	0
	OCT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	0	16	0	0	0	3	0	2	0
UV	SEP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	0	0	1	0
	OCT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	12	3	0	2	0
PRECP	SEP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
	OCT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
BSCAT	SEP	0	1	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	15	0	0	0	0
	OCT	0	1	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	13	0	3	0	0
MCHLR	SEP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0
	OCT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0

APPENDIX B

NUMBER OF HOURS RECORDED AT EACH SITE FOR EACH PARAMETER

The following tables show the numbers of hours that a parameter was measured at a given site for each day. A separate table is given for each site. For example, Table B-1 shows that at Site 1, the NO (nitric oxide) was measured for 23 hours on 15 September, for 24 hours on 16 and 17 September, and for 10 hours on 18 September.

TABLE B-1. NUMBER OF HOURS RECORDED PER DAY AT SITE NO. 1

	SEPT																OCT											
	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	1	2	3	4	5	6	7	8	9	10	11	12
NO	23	24	24	10	0	0	0	0	0	0	0	0	0	0	9	24	24	23	24	23	24	23	24	24	23	24	23	24
NO2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	24	23	24	23	24	24	23	24	23	24
NOX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	24	23	24	23	24	24	23	24	23	24
O3	23	24	24	23	24	23	23	23	24	24	23	23	18	23	23	24	24	23	24	23	24	23	24	24	23	24	23	24
SO2	23	24	24	23	24	23	23	23	24	24	23	24	22	23	13	0	0	0	0	0	0	0	0	0	0	0	0	12
THC	23	24	24	23	24	23	23	23	24	17	0	9	19	23	23	24	24	23	24	23	24	23	24	24	23	24	23	24
NMHC	23	24	24	23	24	23	23	23	24	16	0	9	19	23	23	24	24	23	24	23	24	23	24	24	23	24	23	24
CH4	23	24	24	23	24	23	23	23	24	17	0	9	19	23	23	24	24	23	24	23	24	23	24	24	23	24	23	24
CO	23	24	24	23	24	23	23	23	24	17	0	9	19	23	23	24	24	23	24	23	24	23	24	24	23	24	23	24
RS WS	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
RS WD	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
WS	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	21	24	24	24	24	24	24
WD	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
TEMP	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24

TABLE B-2. NUMBER OF HOURS RECORDED PER DAY AT SITE NO. 2

	SEPT																OCT											
	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	1	2	3	4	5	6	7	8	9	10	11	12
NO	23	24	24	23	24	20	22	23	24	2	13	24	23	15	23	31	24	37	23	23	24	22	21	24	22	24	23	24
NO2	23	24	24	23	24	20	22	23	24	2	13	24	23	15	23	31	24	37	23	23	24	22	21	24	22	24	23	24
NOX	23	24	24	23	24	20	22	23	24	2	13	24	23	15	23	31	24	37	23	23	24	22	21	24	22	24	23	24
O3	23	24	24	23	24	20	22	23	24	2	13	24	23	15	23	36	24	49	23	23	24	22	21	24	22	24	23	24
SO2	23	24	24	23	24	20	22	12	0	0	12	24	23	15	23	31	24	35	23	23	24	12	0	0	12	24	23	24
THC	22	24	24	23	24	20	22	23	24	2	13	24	23	15	23	24	24	22	23	23	24	7	0	0	12	21	21	23
NMHC	22	24	24	23	24	20	22	23	24	2	13	24	23	15	23	24	24	22	23	23	24	7	0	0	12	21	21	23
CH4	23	24	24	23	24	20	22	23	24	2	13	24	23	15	23	24	24	22	23	23	24	7	0	0	12	21	21	24
CO	23	24	24	23	24	20	22	23	24	2	13	24	23	15	23	31	24	35	23	23	24	7	0	0	12	21	21	24
RS WS	24	24	24	24	24	20	24	24	24	2	14	24	24	24	24	24	24	24	23	24	24	24	21	24	24	24	24	24
RS WD	24	24	24	24	24	20	24	24	24	2	14	24	24	24	24	24	24	24	23	24	24	24	21	24	24	24	24	24
WS	24	24	24	24	24	20	24	24	24	2	14	24	24	24	24	24	24	24	23	24	24	24	21	24	24	24	24	24
WD	24	24	24	24	24	20	24	24	24	2	14	24	24	24	24	24	24	24	23	24	24	24	21	24	24	24	24	24
TEMP	24	24	24	24	24	20	24	24	24	2	14	24	24	24	24	24	24	24	23	24	24	24	21	24	24	24	24	24
BSCAT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	14	0	0	0	0	0	0	0	0	0	0

TABLE B-3. NUMBER OF HOURS RECORDED PER DAY AT SITE NO. 3

	SEPT																OCT											
	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	1	2	3	4	5	6	7	8	9	10	11	12
NO	0	0	0	0	0	0	0	0	0	9	23	15	24	24	21	24	16	19	5	12	24	22	24	23	24	23	24	22
NO2	0	0	0	0	0	0	0	0	0	9	18	15	13	11	21	22	15	19	5	12	24	22	24	23	24	23	24	22
NOX	0	0	0	0	0	0	0	0	0	9	23	15	24	24	21	22	15	21	17	22	24	22	24	23	24	23	24	22
O3	9	9	17	18	12	9	8	23	15	0	0	0	0	20	15	12	16	23	23	23	23	23	17	16	15	12	18	23
THC	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
NMHC	22	23	23	20	24	19	18	18	23	23	16	12	15	18	7	0	23	8	9	22	20	22	22	22	22	9	0	0
CH4	22	23	23	20	24	19	18	23	23	23	13	7	15	18	7	0	23	9	9	22	19	22	22	21	22	9	0	0
CO	23	23	23	23	24	18	22	23	23	23	13	0	16	9	13	21	23	21	22	22	23	23	23	10	0	0	0	0

TABLE B-4. NUMBER OF HOURS RECORDED PER DAY AT SITE NO. 4

	SEPT																OCT											
	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	1	2	3	4	5	6	7	8	9	10	11	12
O3	3	0	13	21	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	13	5	0
TS	6	4	5	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0
SO2	0	0	0	0	0	17	7	5	0	0	5	6	0	1	1	0	17	11	9	4	2	0	8	10	18	15	10	11
THC	24	24	24	24	24	24	24	24	24	10	24	24	23	14	24	24	24	24	24	24	24	24	24	24	24	24	24	24
NMHC	9	8	0	10	23	7	3	13	23	10	20	16	12	10	6	0	22	7	8	21	20	22	22	12	8	21	6	3
CH4	9	8	0	9	23	7	0	13	23	10	20	16	12	10	0	0	22	9	8	23	20	22	20	12	8	21	6	3
CO	9	8	0	9	23	10	0	11	10	10	10	21	17	9	12	22	24	24	19	23	22	23	23	23	23	22	23	22

TABLE B-5. NUMBER OF HOURS RECORDED PER DAY AT SITE NO. 5

	SEPT																OCT											
	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	1	2	3	4	5	6	7	8	9	10	11	12
NO	0	0	0	0	0	12	0	0	0	0	0	0	0	8	17	24	24	24	24	21	24	22	24	21	24	23	24	22
NO2	0	0	0	0	0	12	0	0	0	0	0	0	0	8	17	23	22	22	23	20	24	21	22	20	24	22	24	21
NOX	0	0	0	0	0	13	24	24	24	24	24	24	24	16	17	24	24	24	24	21	24	22	24	21	24	23	24	22
O3	0	0	0	15	22	22	22	23	20	23	23	21	23	15	14	10	13	12	11	16	16	20	19	15	14	14	15	8
THC	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
NMHC	22	23	23	20	21	20	19	17	23	22	21	16	15	14	7	0	0	0	0	0	0	0	0	0	0	0	0	1
CH4	22	23	23	20	21	20	19	17	23	22	21	16	15	14	7	0	0	0	0	0	0	0	0	0	0	0	0	1
CO	22	23	23	20	21	20	19	17	23	22	21	16	15	14	7	0	0	0	0	0	0	0	0	0	0	0	0	0

TABLE B-6. NUMBER OF HOURS RECORDED PER DAY AT SITE NO. 6

	SEPT																OCT											
	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	1	2	3	4	5	6	7	8	9	10	11	12
NO	0	0	0	0	0	0	0	0	0	0	0	12	24	24	24	24	24	19	20	23	14	24	21	24	23	24	22	24
NO2	0	0	0	0	0	0	0	0	0	0	0	12	24	24	23	22	22	19	20	23	14	24	21	23	23	24	21	19
NOX	0	0	0	0	0	0	0	0	0	0	0	12	24	24	23	24	24	19	20	24	22	24	21	24	23	24	21	24
O3	3	0	16	14	13	9	13	11	0	23	7	0	6	23	18	12	0	0	0	7	17	14	0	0	11	6	15	9
THC	3	0	16	14	13	10	13	11	0	24	9	0	6	24	19	12	0	0	0	7	21	14	0	0	11	6	16	10

TABLE B-7. NUMBER OF HOURS RECORDED PER DAY AT SITE NO. 7

	SEPT																OCT											
	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	1	2	3	4	5	6	7	8	9	10	11	12
O3	23	24	23	12	0	0	0	0	8	24	23	21	23	23	23	23	0	8	7	0	0	11	23	0	12	22	6	0
THC	24	24	24	24	0	0	0	0	24	24	24	24	24	24	24	24	0	24	24	0	0	24	24	0	24	24	24	0

TABLE B-8. NUMBER OF HOURS RECORDED PER DAY AT SITE NO. 8

	SEPT																OCT											
	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	1	2	3	4	5	6	7	8	9	10	11	12
NO	0	0	0	0	0	0	0	0	0	0	0	0	0	16	17	24	24	24	22	24	22	24	22	24	22	16	10	24
NO2	0	0	0	0	0	0	0	0	0	0	0	0	0	6	17	24	24	24	22	24	22	24	22	24	22	16	10	24
NOX	0	0	0	0	0	0	0	0	0	0	0	0	0	6	17	24	24	24	22	24	22	24	22	24	22	16	10	24
O3	0	0	0	23	22	21	23	18	23	23	22	21	23	22	17	6	16	22	13	22	17	7	0	11	21	13	0	0
THC	24	24	24	24	24	24	24	24	24	24	24	24	24	24	18	6	24	24	24	24	24	24	24	24	24	24	24	24
NMHC	9	24	24	21	21	19	10	0	0	0	0	0	0	0	0	0	22	0	0	0	0	7	8	1	0	0	0	0
CH4	22	24	24	20	21	18	20	10	0	0	0	0	0	0	0	0	22	0	0	0	0	7	22	8	0	0	0	1
CO	22	24	24	20	21	18	20	18	13	0	0	0	0	0	0	0	0	0	0	0	0	6	22	21	21	12	0	1

TABLE B-9. NUMBER OF HOURS RECORDED PER DAY AT SITE NO. 9

	SEPT																OCT											
	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	1	2	3	4	5	6	7	8	9	10	11	12
O3	21	24	24	22	23	23	23	23	24	24	23	23	24	23	23	23	24	22	23	24	24	23	24	24	24	23	23	23

TABLE B-10. NUMBER OF HOURS RECORDED PER DAY AT SITE NO. 10

	SEPT																OCT											
	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	1	2	3	4	5	6	7	8	9	10	11	12
NO	22	23	23	23	23	21	23	23	23	23	23	22	22	23	21	22	23	15	21	21	23	23	23	23	22	23	22	22
NOX	22	23	23	23	23	21	23	23	23	23	23	22	22	23	21	22	23	15	21	21	23	23	23	23	22	23	22	22
O3	8	24	24	24	24	24	24	24	24	24	24	24	24	24	19	22	24	23	23	23	23	22	24	24	23	23	23	23
SO2	23	23	23	23	23	23	23	23	23	23	23	22	23	23	22	22	23	20	23	23	23	23	23	23	22	23	23	23
WS	24	24	24	24	24	21	24	24	24	24	24	24	24	24	24	23	24	24	24	24	24	24	24	24	23	24	24	24
WD	24	24	24	24	24	21	24	24	24	24	24	24	24	24	24	23	24	24	24	24	24	24	24	24	23	24	24	24
TEMP	24	24	24	24	24	21	24	24	24	24	24	24	24	24	24	23	24	24	24	24	24	24	24	24	23	24	24	24
DEW	24	24	24	24	24	21	24	24	24	24	24	24	24	24	24	23	24	24	24	24	24	24	24	24	23	24	24	24

TABLE B-11. NUMBER OF HOURS RECORDED PER DAY AT SITE NO. 11

	SEPT																OCT											
	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	1	2	3	4	5	6	7	8	9	10	11	12
NO	23	23	23	22	23	20	23	23	23	23	22	23	22	21	15	23	23	23	23	23	23	23	23	23	23	23	23	22
NOX	23	23	23	22	23	20	23	23	23	23	22	23	22	21	15	23	23	23	23	23	23	23	23	23	23	23	23	22
O3	0	6	24	24	24	24	24	24	24	23	24	24	21	24	24	22	24	19	23	23	24	22	0	0	8	23	23	15
SO2	23	23	23	23	23	23	23	23	23	23	23	23	23	22	19	23	23	23	21	20	23	23	23	23	23	23	23	23
WS	8	0	9	24	24	24	24	23	24	24	24	24	24	24	23	24	24	24	24	24	24	24	24	22	24	24	24	24
WD	8	0	9	24	24	24	24	23	24	24	24	24	24	24	23	24	24	24	24	24	24	24	24	22	24	24	24	24
TEMP	24	24	20	24	24	24	24	24	24	24	24	24	24	24	23	24	24	24	24	24	24	24	24	24	24	24	24	24
DEW	24	24	20	24	24	24	24	24	24	24	24	24	24	24	23	24	24	24	24	24	24	24	24	24	24	24	24	24

TABLE B-12. NUMBER OF HOURS RECORDED PER DAY AT SITE NO. 12

	SEPT																OCT											
	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	1	2	3	4	5	6	7	8	9	10	11	12
NO	0	0	0	0	0	0	0	0	0	0	0	19	0	0	24	24	24	20	21	0	0	0	0	0	0	24	24	23
NO2	0	0	0	0	0	0	0	0	0	0	6	19	14	13	24	24	24	20	21	0	0	0	0	0	24	22	24	22
NOX	0	0	0	0	0	0	0	0	0	0	6	19	14	13	24	24	24	20	21	0	0	0	0	0	24	24	24	23
O3	0	0	0	0	12	24	24	24	24	24	20	22	15	24	24	24	24	23	22	23	12	14	24	24	23	23	15	22

TABLE B-13. NUMBER OF HOURS RECORDED PER DAY AT SITE NO. 13

	SEPT																OCT											
	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	1	2	3	4	5	6	7	8	9	10	11	12
NO	0	23	20	0	0	0	0	0	6	0	0	13	23	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO2	0	23	20	0	0	0	0	0	7	0	0	13	23	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NOX	0	23	20	0	0	0	0	0	6	0	0	13	23	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0
O3	0	23	20	0	0	0	0	0	8	0	0	13	23	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SO2	0	23	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CO	0	0	0	0	0	0	0	0	7	0	0	13	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WS	0	12	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WD	0	12	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TEMP	0	24	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEW	0	24	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRAD	0	24	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BSCAT	0	0	0	0	0	0	0	0	8	0	0	13	23	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TABLE B-14. NUMBER OF HOURS RECORDED PER DAY AT SITE NO. 14

	SEPT																OCT											
	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	1	2	3	4	5	6	7	8	9	10	11	12
NO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	20	14	0	0	0	0	0	0
NO2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	20	14	0	0	0	0	0	0
NOX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	20	14	0	0	0	0	0	0
O3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	40	30	0	0	0	0	0	0
SO2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0
CO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	20	15	0	0	0	0	0	0
BSCAT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	20	16	0	0	0	0	0	0

TABLE B-15. NUMBER OF HOURS RECORDED PER DAY AT SITE NO. 15

	SEPT																OCT											
	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	1	2	3	4	5	6	7	8	9	10	11	12
NO	0	0	0	0	0	1	24	24	24	24	24	24	24	24	24	24	24	20	24	24	24	24	24	24	24	24	24	24
NO2	0	0	0	0	0	1	24	24	24	24	24	24	24	24	24	24	24	20	24	24	24	24	24	24	24	24	24	24
NOX	0	0	0	0	0	1	24	24	24	24	24	24	24	24	24	24	24	20	24	24	24	24	24	24	24	24	24	24
O3	0	0	0	0	0	2	48	48	48	48	48	48	48	48	44	38	48	40	48	48	48	48	48	48	48	48	48	48
CO	0	0	0	0	0	1	24	24	24	24	24	24	24	24	24	24	24	20	24	24	24	24	24	24	24	24	24	24
WS	0	0	0	0	0	1	24	24	24	24	24	24	24	24	24	24	24	19	2	17	24	24	24	24	24	24	24	24
WD	0	0	0	0	0	1	24	24	24	24	24	24	24	24	24	24	24	20	24	24	24	24	24	24	24	24	24	24
TEMP	0	0	0	0	0	1	24	24	24	24	24	24	24	24	24	24	24	20	24	24	24	24	24	24	24	24	24	24
DEW	0	0	0	0	0	0	15	24	24	24	24	24	24	24	24	24	24	20	24	24	24	24	24	24	24	24	24	24
IRAD	0	0	0	0	0	0	24	24	24	24	23	19	24	24	24	24	24	20	24	24	24	24	24	24	24	24	24	24

TABLE B-16. NUMBER OF HOURS RECORDED PER DAY AT SITE NO. 16

	SEPT																OCT											
	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	1	2	3	4	5	6	7	8	9	10	11	12
O3	21	23	23	23	23	23	23	7	23	23	23	23	23	23	21	23	23	23	18	23	23	23	23	23	23	23	23	23

TABLE B-17. NUMBER OF HOURS RECORDED PER DAY AT SITE NO. 17

	SEPT																OCT											
	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	1	2	3	4	5	6	7	8	9	10	11	12
NO	22	24	23	23	24	24	24	24	24	24	24	24	24	24	23	10	9	23	46	47	45	43	22	22	22	23	16	19
NO2	22	24	21	20	24	24	24	24	24	24	24	24	24	24	24	13	9	11	22	23	22	20	0	0	0	0	0	0
NOX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	23	22	20	0	0	0	0	0	0
O3	17	14	23	23	24	24	24	22	24	24	24	24	24	24	23	13	9	24	46	47	45	43	22	22	22	23	16	17
NMHC	0	0	0	0	24	23	24	24	19	17	0	15	24	24	17	19	19	10	18	11	8	8	9	0	13	15	7	11
CH4	0	0	0	24	24	23	24	24	21	33	0	24	24	24	24	21	24	24	24	22	23	24	15	12	24	24	24	20
CO	0	0	0	0	24	0	24	24	21	33	0	24	24	24	24	0	24	24	24	22	23	24	13	14	24	24	24	20
FREON	24	24	23	23	24	23	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
CCL4	24	24	23	23	24	23	24	24	24	24	24	24	24	24	24	23	24	24	24	24	24	24	48	24	24	24	24	24
WS	24	24	24	24	24	23	24	24	24	24	24	24	24	24	24	21	17	14	14	29	43	44	19	21	22	23	22	19
WD	22	20	24	24	22	16	22	24	22	24	24	24	24	24	18	20	16	28	0	30	43	44	19	21	21	23	22	19
TEMP	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	48	48	47	44	24	24	24	24	24	24
DEW	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	48	48	33	44	24	24	24	24	24	24
PRES	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
IRAD	24	24	24	20	24	23	24	24	24	24	24	24	24	24	24	17	9	24	46	48	46	44	23	22	24	23	22	23
UV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	24	23	20	0	0	0	0	0	0
MCHLR	24	24	23	23	24	23	24	24	24	24	24	24	24	24	24	24	24	24	23	24	23	24	24	24	24	24	24	24

TABLE B-18. NUMBER OF HOURS RECORDED PER DAY AT SITE NO. 18

	SEPT																OCT											
	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	1	2	3	4	5	6	7	8	9	10	11	12
NO	0	0	0	4	23	24	24	24	24	19	8	18	8	0	0	0	0	0	7	22	24	24	24	24	24	24	24	20
NO2	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	7	22	24	24	24	24	24	24	24	20
O3	0	0	0	11	24	24	24	24	24	19	8	19	24	24	24	17	24	24	24	22	24	24	24	24	24	24	24	20
PAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	18	17	24	22	18	24	23	13	16
WS	19	12	21	24	24	23	24	24	24	19	5	19	24	24	20	10	14	12	18	22	24	24	24	24	24	24	24	20
WD	19	12	24	24	24	24	23	24	24	19	8	19	24	24	24	17	19	24	24	22	24	24	24	24	24	24	24	20
TEMP	19	12	24	24	24	24	24	24	24	19	8	19	24	24	24	17	24	24	24	22	24	24	24	24	24	24	24	20
DEW	19	12	24	24	24	24	24	24	24	19	8	19	24	24	24	17	24	24	24	22	24	24	24	24	24	24	24	20

TABLE B-19. NUMBER OF HOURS RECORDED PER DAY AT SITE NO. 19

	SEPT																OCT											
	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	1	2	3	4	5	6	7	8	9	10	11	12
NO	0	0	0	23	20	0	0	0	0	0	0	15	23	23	22	0	0	0	0	0	0	0	0	0	0	0	0	0
NO2	0	0	0	23	20	0	0	0	0	0	0	15	23	23	22	0	0	0	0	0	0	0	0	0	0	0	0	0
NOX	0	0	0	23	20	0	0	0	0	0	0	15	23	23	22	0	0	0	0	0	0	0	0	0	0	0	0	0
O3	0	0	0	23	21	0	0	0	0	0	0	16	24	23	22	0	0	0	0	0	0	0	0	0	0	0	0	0
SO2	0	0	0	0	0	0	0	0	0	0	0	16	20	23	22	0	0	0	0	0	0	0	0	0	0	0	0	0
WS	0	0	0	24	21	0	0	0	0	0	0	16	24	24	22	0	0	0	0	0	0	0	0	0	0	0	0	0
WD	0	0	0	24	21	0	0	0	0	0	0	16	24	24	22	0	0	0	0	0	0	0	0	0	0	0	0	0
TEMP	0	0	0	24	21	0	0	0	0	0	0	16	24	24	21	0	0	0	0	0	0	0	0	0	0	0	0	0
DEW	0	0	0	24	21	0	0	0	0	0	0	16	10	23	14	0	0	0	0	0	0	0	0	0	0	0	0	0
IRAD	0	0	0	24	21	0	0	0	0	0	0	16	24	24	22	0	0	0	0	0	0	0	0	0	0	0	0	0

TABLE B-20. NUMBER OF HOURS RECORDED PER DAY AT SITE NO. 20

	SEPT																OCT											
	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	1	2	3	4	5	6	7	8	9	10	11	12
NO	10	24	21	24	24	24	24	22	23	24	24	24	24	24	24	24	24	24	36	24	24	24	24	24	24	24	22	24
NO2	10	24	23	24	24	24	24	24	24	24	24	24	24	24	23	24	23	24	37	24	24	24	24	24	24	24	21	24
NOX	20	24	23	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	37	24	24	24	24	24	24	24	22	24
O3	11	23	23	23	24	24	24	24	24	24	24	24	24	24	24	23	23	24	50	24	24	24	24	24	24	23	23	23
TS	0	4	14	24	24	24	24	24	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SO2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0
THC	0	11	24	24	24	24	24	24	24	24	24	20	23	23	24	17	24	24	24	24	23	22	24	24	24	24	24	24
NMHC	0	10	18	11	12	22	13	24	0	0	24	10	10	7	13	15	18	18	21	16	17	16	21	21	24	24	14	12
CH4	0	11	24	24	24	24	24	24	24	24	24	20	23	23	24	17	24	24	24	24	23	22	24	24	24	24	24	24
CO	0	11	24	24	24	24	24	24	24	24	24	20	23	23	24	17	24	24	37	24	23	22	24	24	24	24	24	24
PAN	0	0	0	0	10	7	9	8	10	10	13	17	20	14	5	8	15	8	4	8	13	15	15	19	24	16	8	9
FREON	0	0	0	9	24	24	24	24	24	24	23	24	24	24	23	21	18	22	24	24	24	24	24	24	24	24	23	23
CCL4	0	0	0	9	24	24	24	24	24	24	23	24	24	24	23	23	18	24	22	24	24	24	24	24	24	21	21	21
VIS	0	0	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TEMP	24	24	24	24	24	23	24	24	24	24	24	24	24	24	24	23	24	24	14	11	24	24	22	24	24	24	23	24
RH	24	24	24	24	24	23	24	24	24	24	24	24	24	24	24	23	24	19	14	11	24	24	22	24	24	24	23	24
PRES	0	0	0	3	6	6	6	6	5	6	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UV	10	24	23	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
BSCAT	20	24	0	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	37	24	24	24	24	24	24	24	24	24

TABLE B-21. NUMBER OF HOURS RECORDED PER DAY AT SITE NO. 21

	SEPT																OCT										
	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	1	2	3	4	5	6	7	8	9	10	11	12
NO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	23	18	0	0	0
NO2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	23	18	0	0	0
NOX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	23	18	0	0	0
O3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	23	18	0	0	0
SO2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	23	18	0	0	0
WS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	24	19	0	0	0
WD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	24	19	0	0	0
TEMP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	24	19	0	0	0
DEW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	24	17	0	0	0
IRAD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	24	19	0	0	0
UV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	24	19	0	0	0

TABLE B-22. NUMBER OF HOURS RECORDED PER DAY AT SITE NO. 22

	SEPT																OCT										
	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	1	2	3	4	5	6	7	8	9	10	11	12
NO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	22	17	0	0	0
NO2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	22	17	0	0	0
NOX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	22	17	0	0	0
O3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36	44	34	0	0	0
SO2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	22	0	0	0	0
CO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	22	17	0	0	0
BSCAT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	22	17	0	0	0

TABLE B-23. NUMBER OF HOURS RECORDED PER DAY AT SITE NO. 23

	SEPT																OCT											
	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	1	2	3	4	5	6	7	8	9	10	11	12
NO	0	0	0	0	0	23	17	12	11	0	0	0	0	0	0	22	21	20	0	0	0	0	0	0	0	0	0	0
NO2	0	0	0	0	0	23	17	12	11	0	0	0	0	0	0	22	21	20	0	0	0	0	0	0	0	0	0	0
NOX	0	0	0	0	0	23	17	12	11	0	0	0	0	0	0	22	21	20	0	0	0	0	0	0	0	0	0	0
O3	0	0	0	0	0	23	17	12	11	0	0	0	0	0	0	22	19	20	0	0	0	0	0	0	0	0	0	0
SO2	0	0	0	0	0	23	0	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0
WS	0	0	0	0	0	24	18	12	12	0	0	0	0	0	0	22	24	18	0	0	0	0	0	0	0	0	0	0
WD	0	0	0	0	0	24	18	12	12	0	0	0	0	0	0	22	24	18	0	0	0	0	0	0	0	0	0	0
TEMP	0	0	0	0	0	24	18	12	12	0	0	0	0	0	0	23	24	21	0	0	0	0	0	0	0	0	0	0
DEW	0	0	0	0	0	24	18	12	12	0	0	0	0	0	0	23	24	21	0	0	0	0	0	0	0	0	0	0
IRAD	0	0	0	0	0	24	18	12	12	0	0	0	0	0	0	23	24	21	0	0	0	0	0	0	0	0	0	0
UV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	24	21	0	0	0	0	0	0	0	0	0	0

TABLE B-24. NUMBER OF HOURS RECORDED PER DAY AT SITE NO. 24

	SEPT																OCT											
	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	1	2	3	4	5	6	7	8	9	10	11	12
THC	1	0	18	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
WS	1	0	18	24	24	23	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
WD	1	0	18	24	24	23	24	24	19	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
PRECP	0	0	0	0	0	7	4	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0

APPENDIX C

NUMBER OF HOURS RECORDED ON A PARTICULAR DAY FOR ALL SITES

The following tables show which days had the most complete data sets. A table is provided for each day to show the number of hours that each parameter was recorded during the day at each site. For example, on 15 September there were 15 sites recording data. Site 1 recorded 23 hours of NO data, while Site 3 recorded none.

TABLE C-1. NUMBER OF HOURS RECORDED ON 15 SEPTEMBER

	- SITE NUMBER -																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
NO	23	23	0	0	0	0	0	0	0	22	23	0	0	0	0	0	22	0	0	10	0	0	0	0
NO2	0	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	0	0	10	0	0	0	0
NOX	0	23	0	0	0	0	0	0	0	22	23	0	0	0	0	0	0	0	0	20	0	0	0	0
O3	23	23	9	3	0	3	23	0	21	8	0	0	0	0	0	21	17	0	0	11	0	0	0	0
TS	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SO2	23	23	0	0	0	0	0	0	0	23	23	0	0	0	0	0	0	0	0	0	0	0	0	0
THC	23	22	24	24	24	3	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
NMHC	23	22	22	9	22	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CH4	23	23	22	9	22	0	0	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CO	23	23	23	9	22	0	0	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FREON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0
RS WS	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CCL4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0
RS WD	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WS	24	24	0	0	0	0	0	0	0	24	8	0	0	0	0	0	24	19	0	0	0	0	0	1
WD	24	24	0	0	0	0	0	0	0	24	8	0	0	0	0	0	22	19	0	0	0	0	0	1
TEMP	24	24	0	0	0	0	0	0	0	24	24	0	0	0	0	0	24	19	0	24	0	0	0	0
DEW	0	0	0	0	0	0	0	0	0	24	24	0	0	0	0	0	24	19	0	0	0	0	0	0
RH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
PRES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0
IRAD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0
UV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0
BSCAT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0
MCHLR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	0	0	0	0
																	24	0	0	0	0	0	0	0

TABLE C-2. NUMBER OF HOURS RECORDED ON 16 SEPTEMBER

	- SITE NUMBER -																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
NO	24	24	0	0	0	0	0	0	0	23	23	0	23	0	0	0	24	0	0	24	0	0	0	0
NO2	0	24	0	0	0	0	0	0	0	0	0	0	23	0	0	0	24	0	0	24	0	0	0	0
NOX	0	24	0	0	0	0	0	0	0	23	23	0	23	0	0	0	0	0	0	24	0	0	0	0
O3	24	24	9	0	0	0	24	0	24	24	6	0	23	0	0	23	14	0	0	23	0	0	0	0
TS	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0
SO2	24	24	0	0	0	0	0	0	0	23	23	0	23	0	0	0	0	0	0	0	0	0	0	0
THC	24	24	24	24	24	0	24	24	0	0	0	0	0	0	0	0	0	0	0	11	0	0	0	0
NMHC	24	24	23	8	23	0	0	24	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0
CH4	24	24	23	8	23	0	0	24	0	0	0	0	0	0	0	0	0	0	0	11	0	0	0	0
CO	24	24	23	8	23	0	0	24	0	0	0	0	0	0	0	0	0	0	0	11	0	0	0	0
FREON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0
RS WS	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CCL4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0
RS WD	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WS	24	24	0	0	0	0	0	0	0	24	0	0	12	0	0	0	24	12	0	0	0	0	0	0
WD	24	24	0	0	0	0	0	0	0	24	0	0	12	0	0	0	20	12	0	0	0	0	0	0
TEMP	24	24	0	0	0	0	0	0	0	24	24	0	24	0	0	0	24	12	0	24	0	0	0	0
DEW	0	0	0	0	0	0	0	0	0	24	24	0	24	0	0	0	24	12	0	0	0	0	0	0
RH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
PRES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0
IRAD	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	24	0	0	0	0	0	0	0
UV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
BSCAT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
MCHLR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0

TABLE C-3. NUMBER OF HOURS RECORDED ON 17 SEPTEMBER

	- SITE NUMBER -																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
NO	24	24	0	0	0	0	0	0	0	23	23	0	20	0	0	0	23	0	0	21	0	0	0	0
NO2	0	24	0	0	0	0	0	0	0	0	0	0	20	0	0	0	21	0	0	23	0	0	0	0
NOX	0	24	0	0	0	0	0	0	0	23	23	0	20	0	0	0	0	0	0	23	0	0	0	0
O3	24	24	17	13	0	16	23	0	24	24	24	0	20	0	0	23	23	0	0	23	0	0	0	0
TS	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	0	0	0	0
SO2	24	24	0	0	0	0	0	0	0	23	23	0	20	0	0	0	0	0	0	0	0	0	0	0
THC	24	24	24	24	24	16	24	24	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	18
NMHC	24	24	23	0	23	0	0	24	0	0	0	0	0	0	0	0	0	0	0	18	0	0	0	0
CH4	24	24	23	0	23	0	0	24	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
CO	24	24	23	0	23	0	0	24	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
FREON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	0	0	0	0	0	0	0
RS WS	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CCL4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	0	0	0	0	0	0	0
RS WD	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	0	0	0	0
WS	24	24	0	0	0	0	0	0	0	24	9	0	20	0	0	0	24	21	0	0	0	0	0	18
WD	24	24	0	0	0	0	0	0	0	24	9	0	20	0	0	0	24	24	0	0	0	0	0	18
TEMP	24	24	0	0	0	0	0	0	0	24	20	0	20	0	0	0	24	24	0	24	0	0	0	0
DEW	0	0	0	0	0	0	0	0	0	24	20	0	20	0	0	0	24	24	0	0	0	0	0	0
RH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
PRES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0
IRAD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0
UV	0	0	0	0	0	0	0	0	0	0	0	0	20	0	0	0	24	0	0	0	0	0	0	0
MCHLR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	0	0	0	0
																	23	0	0	0	0	0	0	0

TABLE C-4. NUMBER OF HOURS RECORDED ON 18 SEPTEMBER

	- SITE NUMBER -																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
NO	10	23	0	0	0	0	0	0	0	23	22	0	0	0	0	0	23	4	23	24	0	0	0	0
NO2	0	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	0	23	24	0	0	0	0
NOX	0	23	0	0	0	0	0	0	0	23	22	0	0	0	0	0	0	0	23	24	0	0	0	0
O3	23	23	18	21	15	14	12	23	22	24	24	0	0	0	0	23	23	11	23	23	0	0	0	0
TS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
SO2	23	23	0	0	0	0	0	0	0	23	23	0	0	0	0	0	0	0	0	0	0	0	0	0
THC	23	23	24	24	24	14	24	24	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	24
NMHC	23	23	20	10	20	0	0	21	0	0	0	0	0	0	0	0	0	0	0	11	0	0	0	0
CH4	23	23	20	9	20	0	0	20	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
CO	23	23	23	9	20	0	0	20	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
FREON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	0	0	9	0	0	0	0
RS WS	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CCL4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	0	0	9	0	0	0	0
RS WD	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WS	24	24	0	0	0	0	0	0	0	24	24	0	0	0	0	0	24	24	24	0	0	0	0	24
WD	24	24	0	0	0	0	0	0	0	24	24	0	0	0	0	0	24	24	24	0	0	0	0	24
TEMP	24	24	0	0	0	0	0	0	0	24	24	0	0	0	0	0	24	24	24	24	0	0	0	0
DEW	0	0	0	0	0	0	0	0	0	24	24	0	0	0	0	0	24	24	24	0	0	0	0	0
RH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
PRES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	3	0	0	0	0
IRAD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	0	24	0	0	0	0	0
UV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
BSCAT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MCHLR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	0	0	0	0	0	0	0

TABLE C-5. NUMBER OF HOURS RECORDED ON 19 SEPTEMBER

	- SITE NUMBER -																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
NO	0	24	0	0	0	0	0	0	0	23	23	0	0	0	0	0	24	23	20	24	0	0	0	0
NO2	0	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	20	24	0	0	0	0
NOX	0	24	0	0	0	0	0	0	0	23	23	0	0	0	0	0	0	0	20	24	0	0	0	0
O3	24	24	12	12	22	13	0	22	23	24	24	12	0	0	0	23	24	24	21	24	0	0	0	0
TS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
SO2	24	24	0	0	0	0	0	0	0	23	23	0	0	0	0	0	0	0	0	0	0	0	0	0
THC	24	24	24	24	24	13	0	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NMHC	24	24	24	23	21	0	0	21	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	24
CH4	24	24	24	23	21	0	0	21	0	0	0	0	0	0	0	0	24	0	0	12	0	0	0	0
CO	24	24	24	23	21	0	0	21	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
PAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
FREON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0
RS WS	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
CCL4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RS WD	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
WS	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WD	24	24	0	0	0	0	0	0	0	24	24	0	0	0	0	0	24	24	21	0	0	0	0	24
TEMP	24	24	0	0	0	0	0	0	0	24	24	0	0	0	0	0	22	24	21	0	0	0	0	24
DEW	0	0	0	0	0	0	0	0	0	24	24	0	0	0	0	0	24	24	21	24	0	0	0	0
RH	0	0	0	0	0	0	0	0	0	24	24	0	0	0	0	0	24	24	21	0	0	0	0	0
PRES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
IRAD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	6	0	0	0	0
UV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	21	0	0	0	0	0
BSCAT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
MCHLR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
																	24	0	0	0	0	0	0	0

TABLE C-6. NUMBER OF HOURS RECORDED ON 20 SEPTEMBER

	- SITE NUMBER -																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
NO	0	20	0	0	12	0	0	0	0	21	20	0	0	0	1	0	24	24	0	24	0	0	23	0
NO2	0	20	0	0	12	0	0	0	0	0	0	0	0	0	1	0	24	0	0	24	0	0	23	0
NOX	0	20	0	0	13	0	0	0	0	21	20	0	0	0	1	0	0	0	0	24	0	0	23	0
O3	23	20	9	0	22	9	0	21	23	24	24	24	0	0	2	23	24	24	0	24	0	0	23	0
TS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
SO2	23	20	0	17	0	0	0	0	0	23	23	0	0	0	0	0	0	0	0	0	0	0	23	0
THC	23	20	24	24	24	10	0	24	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	24
NMHC	23	20	19	7	20	0	0	19	0	0	0	0	0	0	0	0	23	0	0	22	0	0	0	0
CH4	23	20	19	7	20	0	0	18	0	0	0	0	0	0	0	0	23	0	0	24	0	0	0	0
CO	23	20	18	10	20	0	0	18	0	0	0	0	0	0	1	0	0	0	0	24	0	0	0	0
PAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0
FREON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	0	0	24	0	0	0	0
RS WS	24	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CCL4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	0	0	24	0	0	0	0
RS WD	24	20	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
WS	24	20	0	0	0	0	0	0	0	21	24	0	0	0	1	0	23	23	0	0	0	0	24	23
WD	24	20	0	0	0	0	0	0	0	21	24	0	0	0	1	0	16	24	0	0	0	0	24	23
TEMP	24	20	0	0	0	0	0	0	0	21	24	0	0	0	1	0	24	24	0	23	0	0	24	0
DEW	0	0	0	0	0	0	0	0	0	21	24	0	0	0	0	0	24	24	0	0	0	0	24	0
RH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	0	0	0	0
PRES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	6	0	0	0	0
IRAD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	0	0	0	0	0	24	0
UV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
PRECP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
BSCAT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
MCHLR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	0	0	0	0	0	0	0

TABLE C-7. NUMBER OF HOURS RECORDED ON 21 SEPTEMBER

	- SITE NUMBER -																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
NO	0	22	0	0	0	0	0	0	0	23	23	0	0	0	24	0	24	24	0	24	0	0	17	0
NO2	0	22	0	0	0	0	0	0	0	0	0	0	0	0	24	0	24	0	0	24	0	0	17	0
NOX	0	22	0	0	24	0	0	0	0	23	23	0	0	0	24	0	0	0	0	24	0	0	17	0
O3	23	22	8	0	22	13	0	23	23	24	24	24	0	0	48	23	24	24	0	24	0	0	17	0
TS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
SO2	23	22	0	7	0	0	0	0	0	23	23	0	0	0	0	0	0	0	0	0	0	0	0	0
THC	23	22	24	24	24	13	0	24	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	24
NMHC	23	22	18	3	19	0	0	10	0	0	0	0	0	0	0	0	24	0	0	13	0	0	0	0
CH4	23	22	18	0	19	0	0	20	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
CO	23	22	22	0	19	0	0	20	0	0	0	0	0	0	24	0	24	0	0	24	0	0	0	0
PAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0
FREON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
RS WS	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CCL4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
RS WD	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WS	24	24	0	0	0	0	0	0	0	24	24	0	0	0	24	0	24	24	0	0	0	0	18	24
WD	24	24	0	0	0	0	0	0	0	24	24	0	0	0	24	0	22	23	0	0	0	0	18	24
TEMP	24	24	0	0	0	0	0	0	0	24	24	0	0	0	24	0	24	24	0	24	0	0	18	0
DEW	0	0	0	0	0	0	0	0	0	24	24	0	0	0	15	0	24	24	0	0	0	0	18	0
RH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
PRES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	6	0	0	0	0
IRAD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	24	0	0	0	0	0	18	0
UV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
PRECP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
BSCAT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
MCHLR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0

TABLE C-8. NUMBER OF HOURS RECORDED ON 22 SEPTEMBER

	- SITE NUMBER -																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
NO	0	23	0	0	0	0	0	0	0	23	23	0	0	0	24	0	24	24	0	22	0	0	12	0
NO2	0	23	0	0	0	0	0	0	0	0	0	0	0	0	24	0	24	0	0	24	0	0	12	0
NOX	0	23	0	0	24	0	0	0	0	23	23	0	0	0	24	0	0	0	0	24	0	0	12	0
O3	23	23	23	0	23	11	0	18	23	24	24	24	0	0	48	7	22	24	0	24	0	0	12	0
TS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
SO2	23	12	0	5	0	0	0	0	0	23	23	0	0	0	0	0	0	0	0	0	0	0	0	0
THC	23	23	24	24	24	11	0	24	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	24
NMHC	23	23	18	13	17	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
CH4	23	23	23	13	17	0	0	10	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
CO	23	23	23	11	17	0	0	18	0	0	0	0	0	0	24	0	24	0	0	24	0	0	0	0
PAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0
FREON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
RS WS	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CCL4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
RS WD	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WS	24	24	0	0	0	0	0	0	0	24	23	0	0	0	24	0	24	24	0	0	0	0	12	24
WD	24	24	0	0	0	0	0	0	0	24	23	0	0	0	24	0	24	24	0	0	0	0	12	24
TEMP	24	24	0	0	0	0	0	0	0	24	24	0	0	0	24	0	24	24	0	24	0	0	12	0
DEW	0	0	0	0	0	0	0	0	0	24	24	0	0	0	24	0	24	24	0	0	0	0	12	0
RH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
PRES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	6	0	0	0	0
IRAD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	24	0	0	0	0	0	12	0
UV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
BSCAT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
MCHLR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0

TABLE C-9. NUMBER OF HOURS RECORDED ON 23 SEPTEMBER

	- SITE NUMBER -																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
NO	0	24	0	0	0	0	0	0	0	23	23	0	6	0	24	0	24	24	0	23	0	0	11	0
NO2	0	24	0	0	0	0	0	0	0	23	23	0	6	0	24	0	24	0	0	24	0	0	11	0
NOX	0	24	0	0	24	0	0	0	0	0	0	0	7	0	24	0	0	0	0	24	0	0	11	0
O3	24	24	15	0	20	0	8	23	24	24	24	24	8	0	48	23	24	24	0	24	0	0	11	0
TS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	0	0	0	0
SO2	24	0	0	0	0	0	0	0	0	23	23	0	0	0	0	0	0	0	0	0	0	0	0	0
THC	24	24	24	24	24	0	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NMHC	24	24	23	23	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	24
CH4	24	24	23	23	23	0	0	0	0	0	0	0	0	0	0	0	19	0	0	0	0	0	0	0
CO	24	24	23	10	23	0	0	13	0	0	0	0	0	0	0	0	21	0	0	24	0	0	0	0
PAN	0	0	0	0	0	0	0	0	0	0	0	0	7	0	24	0	21	0	0	24	0	0	0	0
FREON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0
RS WS	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
CCL4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RS WD	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
WS	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WD	24	24	0	0	0	0	0	0	0	24	24	0	0	0	24	0	24	24	0	0	0	0	12	24
TEMP	24	24	0	0	0	0	0	0	0	24	24	0	0	0	24	0	22	24	0	0	0	0	12	19
DEW	0	0	0	0	0	0	0	0	0	24	24	0	0	0	24	0	24	24	0	24	0	0	12	0
RH	0	0	0	0	0	0	0	0	0	24	24	0	0	0	24	0	24	24	0	0	0	0	12	0
PRES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
IRAD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	5	0	0	0	0
UV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	24	0	0	0	0	0	12	0
BSCAT	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	24	0	0	0	0
MCHLR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0

TABLE C-10. NUMBER OF HOURS RECORDED ON 24 SEPTEMBER

	- SITE NUMBER -																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
NO	0	2	9	0	0	0	0	0	0	23	23	0	0	0	24	0	24	19	0	24	0	0	0	0
NO2	0	2	9	0	0	0	0	0	0	0	0	0	0	0	24	0	24	0	0	24	0	0	0	0
NOX	0	2	9	0	24	0	0	0	0	23	23	0	0	0	24	0	0	0	0	24	0	0	0	0
O3	24	2	0	0	23	23	24	23	24	24	23	24	0	0	48	23	24	19	0	24	0	0	0	0
SO2	24	0	0	0	0	0	0	0	0	23	23	0	0	0	0	0	0	0	0	0	0	0	0	0
THC	17	2	24	10	24	24	24	24	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	24
NMHC	16	2	23	10	22	0	0	0	0	0	0	0	0	0	0	0	17	0	0	0	0	0	0	0
CH4	17	2	23	10	22	0	0	0	0	0	0	0	0	0	0	0	33	0	0	24	0	0	0	0
CO	17	2	23	10	22	0	0	0	0	0	0	0	0	0	24	0	33	0	0	24	0	0	0	0
PAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0
FREON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
RS WS	24	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CCL4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
RS WD	24	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WS	24	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
WD	24	2	0	0	0	0	0	0	0	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0
TEMP	24	2	0	0	0	0	0	0	0	24	24	0	0	0	24	0	24	19	0	0	0	0	0	24
DEW	0	0	0	0	0	0	0	0	0	24	24	0	0	0	24	0	24	19	0	0	0	0	0	24
RH	0	0	0	0	0	0	0	0	0	24	24	0	0	0	24	0	24	19	0	24	0	0	0	0
PRES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	24	19	0	0	0	0	0	0
IRAD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
UV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	6	0	0	0	0
BSCAT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	24	0	0	0	0	0	0	0
MCHLR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0

TABLE C-11. NUMBER OF HOURS RECORDED ON 25 SEPTEMBER

	- SITE NUMBER -																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
NO	0	13	23	0	0	0	0	0	0	23	22	0	0	0	24	0	24	8	0	24	0	0	0	0
NO2	0	13	18	0	0	0	0	0	0	0	0	6	0	0	24	0	24	0	0	24	0	0	0	0
NOX	0	13	23	0	24	0	0	0	0	23	22	6	0	0	24	0	0	0	0	24	0	0	0	0
O3	23	13	0	0	23	7	23	22	23	24	24	20	0	0	48	23	24	8	0	24	0	0	0	0
SO2	23	12	0	5	0	0	0	0	0	23	23	0	0	0	0	0	0	0	0	0	0	0	0	0
THC	0	13	24	24	24	9	24	24	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	24
NMHC	0	13	16	20	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
CH4	0	13	13	20	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
CO	0	13	13	10	21	0	0	0	0	0	0	0	0	0	24	0	0	0	0	24	0	0	0	0
PAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	0	0	0	0
FREON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	23	0	0	0	0
RS WS	24	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CCL4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	23	0	0	0	0
RS WD	24	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WS	24	14	0	0	0	0	0	0	0	24	24	0	0	0	24	0	24	5	0	0	0	0	0	24
WD	24	14	0	0	0	0	0	0	0	24	24	0	0	0	24	0	24	8	0	0	0	0	0	24
TEMP	24	14	0	0	0	0	0	0	0	24	24	0	0	0	24	0	24	8	0	24	0	0	0	0
DEW	0	0	0	0	0	0	0	0	0	24	24	0	0	0	24	0	24	8	0	0	0	0	0	0
RH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
PRES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	6	0	0	0	0
IRAD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	0	24	0	0	0	0	0	0	0
UV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
BSCAT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
MCHLR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0

TABLE C-12. NUMBER OF HOURS RECORDED ON 26 SEPTEMBER

	- SITE NUMBER -																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
NO	0	24	15	0	0	12	0	0	0	22	23	19	13	0	24	0	24	18	15	24	0	0	0	0
NO2	0	24	15	0	0	12	0	0	0	0	0	19	13	0	24	0	24	0	15	24	0	0	0	0
NOX	0	24	15	0	24	12	0	0	0	22	23	19	13	0	24	0	0	0	15	24	0	0	0	0
O3	23	24	0	0	21	0	21	21	23	24	24	22	13	0	48	23	24	19	16	24	0	0	0	0
SO2	24	24	0	6	0	0	0	0	0	22	23	0	0	0	0	0	0	0	16	0	0	0	0	0
THC	9	24	24	24	24	0	24	24	0	0	0	0	0	0	0	0	0	0	0	20	0	0	0	24
NMHC	9	24	12	16	16	0	0	0	0	0	0	0	0	0	0	0	15	0	0	10	0	0	0	0
CH4	9	24	7	16	16	0	0	0	0	0	0	0	0	0	0	0	24	0	0	20	0	0	0	0
CO	9	24	0	21	16	0	0	0	0	0	0	0	13	0	24	0	24	0	0	20	0	0	0	0
PAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	0	0	0	0
FREON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
RS WS	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CCL4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
RS WD	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WS	24	24	0	0	0	0	0	0	0	24	24	0	0	0	24	0	24	19	16	0	0	0	0	24
WD	24	24	0	0	0	0	0	0	0	24	24	0	0	0	24	0	24	19	16	0	0	0	0	24
TEMP	24	24	0	0	0	0	0	0	0	24	24	0	0	0	24	0	24	19	16	24	0	0	0	0
DEW	0	0	0	0	0	0	0	0	0	24	24	0	0	0	24	0	24	19	16	0	0	0	0	0
RH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
PRES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0
IRAD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	0	24	0	16	0	0	0	0	0
UV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
BSCAT	0	0	0	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	24	0	0	0	0
MCHLR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0

TABLE C-13. NUMBER OF HOURS RECORDED ON 27 SEPTEMBER

	- SITE NUMBER -																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
NO	0	23	24	0	0	24	0	0	0	22	22	0	23	0	24	0	24	8	23	24	0	0	0	0
NO2	0	23	13	0	0	24	0	0	0	0	0	14	23	0	24	0	24	7	23	24	0	0	0	0
NOX	0	23	24	0	24	24	0	0	0	22	22	14	23	0	24	0	0	0	23	24	0	0	0	0
O3	18	23	0	0	23	6	23	23	24	24	21	15	23	0	48	23	24	24	24	24	0	0	0	0
SO2	22	23	0	0	0	0	0	0	0	23	23	0	0	0	0	0	0	0	20	0	0	0	0	0
THC	19	23	24	23	24	6	24	24	0	0	0	0	0	0	0	0	0	0	0	23	0	0	0	24
NMHC	19	23	15	12	15	0	0	0	0	0	0	0	0	0	0	0	24	0	0	10	0	0	0	0
CH4	19	23	15	12	15	0	0	0	0	0	0	0	0	0	0	0	24	0	0	23	0	0	0	0
CO	19	23	16	17	15	0	0	0	0	0	0	0	0	0	24	0	24	0	0	23	0	0	0	0
PAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	0	0	0	0
FREON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
RS WS	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CCL4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
RS WD	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WS	24	24	0	0	0	0	0	0	0	24	24	0	0	0	24	0	24	24	24	0	0	0	0	24
WD	24	24	0	0	0	0	0	0	0	24	24	0	0	0	24	0	24	24	24	0	0	0	0	24
TEMP	24	24	0	0	0	0	0	0	0	24	24	0	0	0	24	0	24	24	24	24	0	0	0	0
DEW	0	0	0	0	0	0	0	0	0	24	24	0	0	0	24	0	24	24	10	0	0	0	0	0
RH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
PRES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	24	0	24	0	0	0	0	0
IRAD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
UV	0	0	0	0	0	0	0	0	0	0	0	0	23	0	0	0	0	0	0	24	0	0	0	0
BSCAT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0
MCHLR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0

TABLE C-14. NUMBER OF HOURS RECORDED ON 28 SEPTEMBER

	- SITE NUMBER -																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
NO	0	15	24	0	8	24	0	16	0	23	21	0	15	0	24	0	24	0	23	24	0	0	0	0
NO2	0	15	11	0	8	24	0	6	0	0	0	13	15	0	24	0	24	0	23	24	0	0	0	0
NOX	0	15	24	0	16	24	0	6	0	23	21	13	15	0	24	0	0	0	23	24	0	0	0	0
O3	23	15	20	0	15	23	23	22	23	24	24	24	24	0	48	23	24	24	23	24	0	0	0	0
SO2	23	15	0	1	0	0	0	0	0	23	22	0	0	0	0	0	0	0	23	0	0	0	0	0
THC	23	15	24	14	24	24	24	24	0	0	0	0	0	0	0	0	0	0	0	23	0	0	0	24
NMHC	23	15	18	10	14	0	0	0	0	0	0	0	0	0	0	0	24	0	0	7	0	0	0	0
CH4	23	15	18	10	14	0	0	0	0	0	0	0	0	0	0	0	24	0	0	23	0	0	0	0
CO	23	15	9	9	14	0	0	0	0	0	0	0	15	0	24	0	24	0	0	23	0	0	0	0
PAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	0	0	0	0
FREON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
RS WS	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CCL4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
RS WD	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WS	24	24	0	0	0	0	0	0	0	24	24	0	0	0	24	0	24	24	24	0	0	0	0	24
WD	24	24	0	0	0	0	0	0	0	24	24	0	0	0	24	0	24	24	24	0	0	0	0	24
TEMP	24	24	0	0	0	0	0	0	0	24	24	0	0	0	24	0	24	24	24	24	0	0	0	0
DEW	0	0	0	0	0	0	0	0	0	24	24	0	0	0	24	0	24	24	23	0	0	0	0	0
RH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
PRES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0
IRAD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	24	0	24	0	0	0	0	0
UV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
BSCAT	0	0	0	0	0	0	0	0	0	0	0	0	15	0	0	0	0	0	0	24	0	0	0	0
MCHLR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0

TABLE C-15. NUMBER OF HOURS RECORDED ON 29 SEPTEMBER

	- SITE NUMBER -																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
NO	9	23	21	0	17	24	0	17	0	21	15	24	0	0	24	0	23	0	22	24	0	0	0	0
NO2	0	23	21	0	17	23	0	17	0	0	0	24	0	0	24	0	24	0	22	23	0	0	0	0
NOX	0	23	21	0	17	23	0	17	0	21	15	24	0	0	24	0	0	0	22	24	0	0	0	0
O3	23	23	15	0	14	18	23	17	23	19	24	24	0	0	44	21	23	24	22	24	0	0	0	0
TS	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SO2	13	23	0	1	0	0	0	0	0	22	19	0	0	0	0	0	0	0	22	0	0	0	0	0
THC	23	23	24	24	24	19	24	18	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	24
NMHC	23	23	7	6	7	0	0	0	0	0	0	0	0	0	0	0	17	0	0	13	0	0	0	0
CH4	23	23	7	0	7	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
CO	23	23	13	12	7	0	0	0	0	0	0	0	0	0	24	0	24	0	0	24	0	0	0	0
PAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0
FREON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	23	0	0	0	0
RS WS	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CCL4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	23	0	0	0	0
RS WD	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WS	24	24	0	0	0	0	0	0	0	24	23	0	0	0	24	0	24	20	22	0	0	0	0	24
WD	24	24	0	0	0	0	0	0	0	24	23	0	0	0	24	0	18	24	22	0	0	0	0	24
TEMP	24	24	0	0	0	0	0	0	0	24	23	0	0	0	24	0	24	24	21	24	0	0	0	0
DEW	0	0	0	0	0	0	0	0	0	24	23	0	0	0	24	0	24	24	14	0	0	0	0	0
RH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
PRES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0
IRAD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	24	0	22	0	0	0	0	0
UV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
BSCAT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
MCHLR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0

TABLE C-16. NUMBER OF HOURS RECORDED ON 30 SEPTEMBER

	- SITE NUMBER -																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
NO	24	31	24	0	24	24	0	24	0	22	23	24	0	0	24	0	10	0	0	24	0	0	22	0
NO2	0	31	22	0	23	22	0	24	0	0	0	24	0	0	24	0	13	0	0	24	0	0	22	0
NOX	0	31	22	0	24	24	0	24	0	22	23	24	0	0	24	0	0	0	0	24	0	0	22	0
O3	24	36	12	0	10	12	23	6	23	22	22	24	0	0	38	23	13	17	0	23	0	0	22	0
SO2	0	31	0	0	0	0	0	0	0	22	23	0	0	0	0	0	0	0	0	0	0	0	0	0
THC	24	24	24	24	24	12	24	6	0	0	0	0	0	0	0	0	0	0	0	17	0	0	0	24
NMHC	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	0	0	15	0	0	0	0
CH4	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	0	0	17	0	0	0	0
CO	24	31	21	22	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	17	0	0	0	0
PAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0
FREON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	21	0	0	0	0
RS WS	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CCL4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	0	0	23	0	0	0	0
RS WD	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WS	24	24	0	0	0	0	0	0	0	23	24	0	0	0	24	0	21	10	0	0	0	0	22	24
WD	24	24	0	0	0	0	0	0	0	23	24	0	0	0	24	0	20	17	0	0	0	0	22	24
TEMP	24	24	0	0	0	0	0	0	0	23	24	0	0	0	24	0	24	17	0	23	0	0	23	0
DEW	0	0	0	0	0	0	0	0	0	23	24	0	0	0	24	0	24	17	0	0	0	0	23	0
RH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	0	0	0	0
PRES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0
IRAD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	17	0	0	0	0	0	23	0
UV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	22	0
BSCAT	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
MCHLR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0

TABLE C-17. NUMBER OF HOURS RECORDED ON 1 OCTOBER

	- SITE NUMBER -																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
NO	24	24	16	0	24	24	0	24	0	23	23	24	0	0	24	0	9	0	0	24	0	0	21	0
NO2	0	24	15	0	22	22	0	24	0	0	0	24	0	0	24	0	9	0	0	23	0	0	21	0
NOX	0	24	15	0	24	24	0	24	0	23	23	24	0	0	24	0	0	0	0	24	0	0	21	0
O3	24	24	16	0	13	0	0	16	24	24	24	24	0	0	48	23	9	24	0	23	0	0	19	0
SO2	0	24	0	17	0	0	0	0	0	23	23	0	0	0	0	0	0	0	0	0	0	0	20	0
THC	24	24	24	24	24	0	0	24	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	24
NMHC	24	24	23	22	0	0	0	22	0	0	0	0	0	0	0	0	19	0	0	18	0	0	0	0
CH4	24	24	23	22	0	0	0	22	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
CO	24	24	23	24	0	0	0	0	0	0	0	0	0	0	24	0	24	0	0	24	0	0	0	0
PAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	0	0	0	0
FREON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	18	0	0	0	0
RS WS	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CCL4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	18	0	0	0	0
RS WD	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WS	24	24	0	0	0	0	0	0	0	24	24	0	0	0	24	0	17	14	0	0	0	0	24	24
WD	24	24	0	0	0	0	0	0	0	24	24	0	0	0	24	0	16	19	0	0	0	0	24	24
TEMP	24	24	0	0	0	0	0	0	0	24	24	0	0	0	24	0	24	24	0	24	0	0	24	0
DEW	0	0	0	0	0	0	0	0	0	24	24	0	0	0	24	0	24	24	0	0	0	0	24	0
RH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
PRES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0
IRAD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	9	0	0	0	0	0	24	0
UV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0
BSCAT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
MCHLR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0

TABLE C-18. NUMBER OF HOURS RECORDED ON 2 OCTOBER

	- SITE NUMBER -																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
NO	23	37	19	0	24	19	0	24	0	15	23	20	0	0	20	0	23	0	0	24	0	0	20	0
NO2	15	37	19	0	22	19	0	24	0	0	0	20	0	0	20	0	11	0	0	24	0	0	20	0
NOX	15	37	21	0	24	19	0	24	0	15	23	20	0	0	24	0	0	0	0	24	0	0	20	0
O3	23	49	23	0	12	0	8	22	22	23	19	23	0	0	40	23	24	24	0	24	0	0	20	0
SO2	0	35	0	11	0	0	0	0	0	20	23	0	0	0	0	0	0	0	0	0	0	0	0	0
THC	23	22	24	24	24	0	24	24	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	24
NMHC	23	22	8	7	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	18	0	0	0	0
CH4	23	22	9	9	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
CO	23	35	21	24	0	0	0	0	0	0	0	0	0	0	20	0	24	0	0	24	0	0	0	0
PAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0
FREON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	22	0	0	0	0
RS.WS	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CCL4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
RS WD	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WS	24	24	0	0	0	0	0	0	0	24	24	0	0	0	19	0	14	12	0	0	0	0	18	24
WD	24	24	0	0	0	0	0	0	0	24	24	0	0	0	20	0	28	24	0	0	0	0	18	24
TEMP	24	24	0	0	0	0	0	0	0	24	24	0	0	0	20	0	24	24	0	24	0	0	21	0
DEW	0	0	0	0	0	0	0	0	0	24	24	0	0	0	20	0	24	24	0	0	0	0	21	0
RH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	0	0	0	0
PRES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0
IRAD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	0	24	0	0	0	0	0	21	0
UV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	21	0
BSCAT	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
MCHLR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0

TABLE C-19. NUMBER OF HOURS RECORDED ON 3 OCTOBER

	- SITE NUMBER -																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
NO	24	23	5	0	24	20	0	22	0	21	23	21	0	0	24	0	46	7	0	36	0	0	0	0
NO2	24	23	5	0	23	20	0	22	0	0	0	21	0	0	24	0	22	7	0	37	0	0	0	0
NOX	24	23	17	0	24	20	0	22	0	21	23	21	0	0	24	0	22	0	0	37	0	0	0	0
O3	24	23	23	0	11	0	7	13	23	23	23	22	0	0	48	18	46	24	0	50	0	0	0	0
SO2	0	23	0	9	0	0	0	0	0	23	21	0	0	0	0	0	0	0	0	8	0	0	0	0
THC	24	23	24	24	24	0	24	24	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	24
NMHC	24	23	9	8	0	0	0	0	0	0	0	0	0	0	0	0	18	0	0	21	0	0	0	0
CH4	24	23	9	8	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
CO	24	23	22	19	0	0	0	0	0	0	0	0	0	0	24	0	24	0	0	37	0	0	0	0
PAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	4	0	0	0	0
FREON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
RS WS	24	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CCL4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	22	0	0	0	0
RS WD	24	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WS	24	23	0	0	0	0	0	0	0	24	24	0	0	0	2	0	14	18	0	0	0	0	0	24
WD	24	23	0	0	0	0	0	0	0	24	24	0	0	0	24	0	0	24	0	0	0	0	0	24
TEMP	24	23	0	0	0	0	0	0	0	24	24	0	0	0	24	0	48	24	0	14	0	0	0	0
DEW	0	0	0	0	0	0	0	0	0	24	24	0	0	0	24	0	48	24	0	0	0	0	0	0
RH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	0	0	0	0
PRES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0
IRAD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	46	0	0	0	0	0	0	0
UV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
PRECP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
BSCAT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37	0	0	0	0
MCHLR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	0	0	0	0	0	0	0

TABLE C-20. NUMBER OF HOURS RECORDED ON 4 OCTOBER

	- SITE NUMBER -																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
NO	23	23	12	0	21	23	0	24	0	21	23	0	0	3	24	0	47	22	0	24	0	0	0	0
NO2	23	23	12	0	20	23	0	24	0	0	0	0	0	3	24	0	23	22	0	24	0	0	0	0
NOX	23	23	22	0	21	24	0	24	0	21	23	0	0	3	24	0	23	0	0	24	0	0	0	0
O3	23	23	23	0	16	7	0	22	24	23	23	23	0	3	48	23	47	22	0	24	0	0	0	0
SO2	0	23	0	4	0	0	0	0	0	23	20	0	0	0	0	0	0	0	0	0	0	0	0	0
THC	23	23	24	24	24	7	0	24	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	24
NMHC	23	23	22	21	0	0	0	0	0	0	0	0	0	0	0	0	11	0	0	16	0	0	0	0
CH4	23	23	22	23	0	0	0	0	0	0	0	0	0	0	0	0	22	0	0	24	0	0	0	0
CO	23	23	22	23	0	0	0	0	0	0	0	0	0	0	3	24	0	22	0	0	24	0	0	0
PAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	0	8	0	0	0	0
FREON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
RS WS	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CCL4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
RS WD	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WS	24	24	0	0	0	0	0	0	0	24	24	0	0	0	17	0	29	22	0	0	0	0	0	24
WD	24	24	0	0	0	0	0	0	0	24	24	0	0	0	24	0	30	22	0	0	0	0	0	24
TEMP	24	24	0	0	0	0	0	0	0	24	24	0	0	0	24	0	48	22	0	11	0	0	0	0
DEW	0	0	0	0	0	0	0	0	0	24	24	0	0	0	24	0	48	22	0	0	0	0	0	0
RH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	0	0	0	0
PRES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0
IRAD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	48	0	0	0	0	0	0	0
UV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
BSCAT	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	24	0	0	0	0
MCHLR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0

TABLE C-21. NUMBER OF HOURS RECORDED ON 5 OCTOBER

	- SITE NUMBER -																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
NO	24	24	24	0	24	14	0	22	0	23	23	0	0	20	24	0	45	24	0	24	0	0	0	0
NO2	24	24	24	0	24	14	0	22	0	0	0	0	0	20	24	0	22	24	0	24	0	0	0	0
NOX	24	24	24	0	24	22	0	22	0	23	23	0	0	20	24	0	22	0	0	24	0	0	0	0
O3	24	24	23	0	16	17	0	17	24	23	24	12	0	40	48	23	45	24	0	24	0	0	0	0
SO2	0	24	0	2	0	0	0	0	0	23	23	0	0	20	0	0	0	0	0	0	0	0	0	0
THC	24	24	24	24	24	21	0	24	0	0	0	0	0	0	0	0	0	0	0	23	0	0	0	24
NMHC	24	24	20	20	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	17	0	0	0	0
CH4	24	24	19	20	0	0	0	0	0	0	0	0	0	0	0	0	23	0	0	23	0	0	0	0
CO	24	24	23	22	0	0	0	0	0	0	0	0	0	20	24	0	23	0	0	23	0	0	0	0
PAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	0	13	0	0	0	0
FREON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
RS WS	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CCL4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
RS WD	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WS	24	24	0	0	0	0	0	0	0	24	24	0	0	0	24	0	43	24	0	0	0	0	0	24
WD	24	24	0	0	0	0	0	0	0	24	24	0	0	0	24	0	43	24	0	0	0	0	0	24
TEMP	24	24	0	0	0	0	0	0	0	24	24	0	0	0	24	0	47	24	0	24	0	0	0	0
DEW	0	0	0	0	0	0	0	0	0	24	24	0	0	0	24	0	33	24	0	0	0	0	0	0
RH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
PRES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0
IRAD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	46	0	0	0	0	0	0	0
UV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	0	0	24	0	0	0	0
BSCAT	0	0	0	0	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	24	0	0	0	0
MCHLR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	0	0	0	0	0	0	0

TABLE C-22. NUMBER OF HOURS RECORDED ON 6 OCTOBER

	- SITE NUMBER -																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
NO	23	22	22	0	22	24	0	24	0	23	23	0	0	14	24	0	43	24	0	24	0	0	0	0
NO2	23	22	22	0	21	24	0	24	0	0	0	0	0	14	24	0	20	24	0	24	0	0	0	0
NOX	23	22	22	0	22	24	0	24	0	23	23	0	0	14	24	0	20	0	0	24	0	0	0	0
O3	23	22	23	0	20	14	11	7	23	22	22	14	0	30	48	23	43	24	0	24	0	0	0	0
SO2	0	12	0	0	0	0	0	0	0	23	23	0	0	0	0	0	0	0	0	0	0	0	0	0
THC	23	7	24	24	24	14	24	24	0	0	0	0	0	0	0	0	0	0	0	22	0	0	0	24
NMHC	23	7	22	22	0	0	0	7	0	0	0	0	0	0	0	0	8	0	0	16	0	0	0	0
CH4	23	7	22	22	0	0	0	7	0	0	0	0	0	0	0	0	24	0	0	22	0	0	0	0
CO	23	7	23	23	0	0	0	6	0	0	0	0	0	15	24	0	24	0	0	22	0	0	0	0
PAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	15	0	0	0	0
FREON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
RS WS	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CCL4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
RS WD	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WS	24	24	0	0	0	0	0	0	0	24	24	0	0	0	24	0	44	24	0	0	0	0	0	24
WD	24	24	0	0	0	0	0	0	0	24	24	0	0	0	24	0	44	24	0	0	0	0	0	24
TEMP	24	24	0	0	0	0	0	0	0	24	24	0	0	0	24	0	44	24	0	24	0	0	0	0
DEW	0	0	0	0	0	0	0	0	0	24	24	0	0	0	24	0	44	24	0	0	0	0	0	0
RH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
PRES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0
IRAD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	44	0	0	0	0	0	0	0
UV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	0	0	24	0	0	0	0
BSCAT	0	0	0	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	24	0	0	0	0
MCHLR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0

TABLE C-23. NUMBER OF HOURS RECORDED ON 7 OCTOBER

	- SITE NUMBER -																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
NO	24	21	24	0	24	21	0	22	0	23	23	0	0	0	24	0	22	24	0	24	23	18	0	0
NO2	24	21	24	0	22	21	0	22	0	0	0	0	0	0	24	0	0	24	0	24	23	18	0	0
NOX	24	21	24	0	24	21	0	22	0	23	23	0	0	0	24	0	0	0	0	24	23	18	0	0
O3	24	21	17	0	19	0	23	0	24	24	0	24	0	0	48	23	22	24	0	24	23	36	0	0
SO2	0	0	0	8	0	0	0	0	0	23	23	0	0	0	0	0	0	0	0	0	23	17	0	0
THC	24	0	24	24	24	0	24	24	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	24
NMHC	24	0	22	22	0	0	0	8	0	0	0	0	0	0	0	0	9	0	0	21	0	0	0	0
CH4	24	0	22	20	0	0	0	22	0	0	0	0	0	0	0	0	15	0	0	24	0	0	0	0
CO	24	0	23	23	0	0	0	22	0	0	0	0	0	0	24	0	13	0	0	24	0	18	0	0
PAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	0	15	0	0	0	0
FREON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
RS WS	24	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CCL4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48	0	0	24	0	0	0	0
RS WD	24	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WS	24	21	0	0	0	0	0	0	0	24	24	0	0	0	24	0	19	24	0	0	24	0	0	24
WD	24	21	0	0	0	0	0	0	0	24	24	0	0	0	24	0	19	24	0	0	24	0	0	24
TEMP	24	21	0	0	0	0	0	0	0	24	24	0	0	0	24	0	24	24	0	22	24	0	0	0
DEW	0	0	0	0	0	0	0	0	0	24	24	0	0	0	24	0	24	24	0	0	24	0	0	0
RH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	0	0	0	0
PRES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0
IRAD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	23	0	0	0	24	0	0	0
UV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	24	0	0	0
BSCAT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	18	0	0
MCHLR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0

TABLE C-24. NUMBER OF HOURS RECORDED ON 8 OCTOBER

	- SITE NUMBER -																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
NO	24	24	23	0	21	24	0	24	0	23	23	0	0	0	24	0	22	24	0	24	23	22	0	0
NO2	24	24	23	0	20	23	0	24	0	0	0	0	0	0	24	0	0	24	0	24	23	22	0	0
NOX	24	24	23	0	21	24	0	24	0	23	23	0	0	0	24	0	0	0	0	24	23	22	0	0
O3	24	24	16	0	15	0	0	11	24	24	0	24	0	0	48	23	22	24	0	24	23	44	0	0
SO2	0	0	0	10	0	0	0	0	0	23	23	0	0	0	0	0	0	0	0	0	23	22	0	0
THC	24	0	24	24	24	0	0	24	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	24
NMHC	24	0	22	12	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	21	0	0	0	0
CH4	24	0	21	12	0	0	0	8	0	0	0	0	0	0	0	0	12	0	0	24	0	0	0	0
CO	24	0	10	23	0	0	0	21	0	0	0	0	0	0	24	0	14	0	0	24	0	22	0	0
PAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	0	19	0	0	0	0
FREON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
RS WS	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CCL4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
RS WD	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WS	24	24	0	0	0	0	0	0	0	24	22	0	0	0	24	0	21	24	0	0	24	0	0	24
WD	24	24	0	0	0	0	0	0	0	24	22	0	0	0	24	0	21	24	0	0	24	0	0	24
TEMP	24	24	0	0	0	0	0	0	0	24	24	0	0	0	24	0	24	24	0	24	24	0	0	0
DEW	0	0	0	0	0	0	0	0	0	24	24	0	0	0	24	0	24	24	0	0	24	0	0	0
RH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
PRES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0
IRAD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	22	0	0	0	24	0	0	0
UV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	24	0	0	0
BSCAT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	22	0	0
MCHLR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0

TABLE C-25. NUMBER OF HOURS RECORDED ON 9 OCTOBER

	- SITE NUMBER -																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
NO	23	22	24	0	24	23	0	22	0	22	23	0	0	0	24	0	22	24	0	24	18	17	0	0
NO2	23	22	24	0	24	23	0	22	0	0	0	24	0	0	24	0	0	24	0	24	18	17	0	0
NOX	23	22	24	0	24	23	0	22	0	22	23	24	0	0	24	0	0	0	0	24	18	17	0	0
O3	23	22	15	13	14	11	12	21	24	23	8	23	0	0	48	23	22	24	0	24	18	34	0	0
SO2	0	12	0	18	0	0	0	0	0	22	23	0	0	0	0	0	0	0	0	0	18	0	0	0
THC	23	12	24	24	24	11	24	24	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	24
NMHC	23	12	22	8	0	0	0	0	0	0	0	0	0	0	0	0	13	0	0	24	0	0	0	0
CH4	23	12	22	8	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
CO	23	12	0	23	0	0	0	21	0	0	0	0	0	0	24	0	24	0	0	24	0	17	0	0
PAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	24	0	0	0	0
FREON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
RS WS	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CCL4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
RS WD	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WS	24	24	0	0	0	0	0	0	0	23	24	0	0	0	24	0	22	24	0	0	19	0	0	24
WD	24	24	0	0	0	0	0	0	0	23	24	0	0	0	24	0	21	24	0	0	19	0	0	24
TEMP	24	24	0	0	0	0	0	0	0	23	24	0	0	0	24	0	24	24	0	24	19	0	0	0
DEW	0	0	0	0	0	0	0	0	0	23	24	0	0	0	24	0	24	24	0	24	19	0	0	0
RH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	0	0	0
PRES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
IRAD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0
UV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	19	0	0	0
BSCAT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	17	0	0
MCHLR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0

TABLE C-26. NUMBER OF HOURS RECORDED ON 10 OCTOBER

	- SITE NUMBER -																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
NO	24	24	23	0	23	24	0	16	0	23	23	24	0	0	24	0	23	24	0	24	0	0	0	0
NO2	24	24	23	0	22	24	0	16	0	0	0	22	0	0	24	0	0	24	0	24	0	0	0	0
NOX	24	24	23	0	23	24	0	16	0	23	23	24	0	0	24	0	0	0	0	24	0	0	0	0
O3	24	24	12	13	14	6	22	13	23	23	23	23	0	0	48	23	23	24	0	23	0	0	0	0
SO2	0	24	0	15	0	0	0	0	0	23	23	0	0	0	0	0	0	0	0	0	0	0	0	0
THC	24	21	24	24	24	6	24	24	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	24
NMHC	24	21	9	21	0	0	0	0	0	0	0	0	0	0	0	0	15	0	0	24	0	0	0	0
CH4	24	21	9	21	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
CO	24	21	0	22	0	0	0	12	0	0	0	0	0	0	24	0	24	0	0	24	0	0	0	0
PAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FREON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
RS WS	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CCL4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RS WD	24	24	0	0	0	0	0	0	0	24	24	0	0	0	24	0	23	24	0	0	0	0	0	24
WS	24	24	0	0	0	0	0	0	0	24	24	0	0	0	24	0	23	24	0	0	0	0	0	24
WD	24	24	0	0	0	0	0	0	0	24	24	0	0	0	24	0	24	24	0	24	0	0	0	0
TEMP	24	24	0	0	0	0	0	0	0	24	24	0	0	0	24	0	24	24	0	0	0	0	0	0
DEW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
RH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0
PRES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	23	0	0	0	0	0	0	0
IRAD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
UV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BSCAT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0
MCHLR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TABLE C-27. NUMBER OF HOURS RECORDED ON 11 OCTOBER

	- SITE NUMBER -																					
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
NO	23	23	24	0	24	22	0	10	0	22	23	24	0	0	24	0	16	24	0	22	0	0	0	0
NO2	23	23	24	0	24	21	0	10	0	0	0	24	0	0	24	0	0	24	0	21	0	0	0	0
NOX	23	23	24	0	24	21	0	10	0	22	23	24	0	0	24	0	0	0	0	22	0	0	0	0
O3	23	23	18	5	15	15	6	0	23	23	23	15	0	0	48	23	16	24	0	23	0	0	0	0
SO2	0	23	0	10	0	0	0	0	0	23	23	0	0	0	0	0	0	0	0	0	0	0	0	0
THC	23	21	24	24	24	16	24	24	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	24
NMHC	23	21	0	6	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	14	0	0	0	0
CH4	23	21	0	6	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
CO	23	21	0	23	0	0	0	0	0	0	0	0	0	0	24	0	24	0	0	24	0	0	0	0
PAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	0	8	0	0	0	0
FREON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	23	0	0	0	0
RS WS	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CCL4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	21	0	0	0	0
RS WD	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WS	24	24	0	0	0	0	0	0	0	24	24	0	0	0	24	0	22	24	0	0	0	0	0	24
WD	24	24	0	0	0	0	0	0	0	24	24	0	0	0	24	0	22	24	0	0	0	0	0	24
TEMP	24	24	0	0	0	0	0	0	0	24	24	0	0	0	24	0	24	24	0	23	0	0	0	0
DEW	0	0	0	0	0	0	0	0	0	24	24	0	0	0	24	0	24	24	0	0	0	0	0	0
RH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	0	0	0	0
PRES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0
IRAD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	22	0	0	0	0	0	0	0
UV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
BSCAT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
MCHLR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0

TABLE C-28. NUMBER OF HOURS RECORDED ON 12 OCTOBER

	- SITE NUMBER -																					
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
NO	24	24	22	0	22	24	0	24	0	22	22	23	0	0	24	0	19	20	0	24	0	0	0	0
NO2	24	24	22	0	21	19	0	24	0	0	0	22	0	0	24	0	0	20	0	24	0	0	0	0
NOX	24	24	22	0	22	24	0	24	0	22	22	23	0	0	24	0	0	0	0	24	0	0	0	0
O3	24	24	23	0	8	9	0	0	23	23	15	22	0	0	48	23	17	20	0	23	0	0	0	0
SO2	12	24	0	11	0	0	0	0	0	23	23	0	0	0	0	0	0	0	0	0	0	0	0	0
THC	24	23	24	24	24	10	0	24	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	24
NMHC	24	23	0	3	1	0	0	0	0	0	0	0	0	0	0	0	11	0	0	12	0	0	0	0
CH4	24	24	0	3	1	0	0	1	0	0	0	0	0	0	0	0	20	0	0	24	0	0	0	0
CO	24	24	0	22	0	0	0	1	0	0	0	0	0	0	24	0	20	0	0	24	0	0	0	0
PAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	0	9	0	0	0	0
FREON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	23	0	0	0	0
RS WS	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CCL4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	21	0	0	0	0
RS WD	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WS	24	24	0	0	0	0	0	0	0	24	24	0	0	0	24	0	19	20	0	0	0	0	0	24
WD	24	24	0	0	0	0	0	0	0	24	24	0	0	0	24	0	19	20	0	0	0	0	0	24
TEMP	24	24	0	0	0	0	0	0	0	24	24	0	0	0	24	0	24	20	0	24	0	0	0	0
DEW	0	0	0	0	0	0	0	0	0	24	24	0	0	0	24	0	24	20	0	0	0	0	0	0
RH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
PRES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0
IRAD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	23	0	0	0	0	0	0	0
UV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
BSCAT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
MCHLR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0

APPENDIX D

NUMBER OF HOURS RECORDED FOR A PARTICULAR PARAMETER BY DATA AND SITE

The following tables show which sites and days have the most complete sets for a given parameter. Each table represents a different parameter. For example, the first table for NO (nitric oxide) shows that on 15 September a minimal amount of data was collected, but 7 October has a large amount.

TABLE D-1. NUMBER OF HOURS RECORDED FOR NO

		- SITE NUMBER -																						
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
SEPT	15	23	23	0	0	0	0	0	0	0	22	23	0	0	0	0	0	22	0	0	10	0	0	0	0
SEPT	16	24	24	0	0	0	0	0	0	0	23	23	0	23	0	0	0	24	0	0	24	0	0	0	0
SEPT	17	24	24	0	0	0	0	0	0	0	23	23	0	20	0	0	0	23	0	0	21	0	0	0	0
SEPT	18	10	23	0	[illegible]	0	0	0	0	0	23	22	0	0	0	0	0	23	4	23	24	0	0	0	0
SEPT	19	0	24	0	0	0	0	0	0	0	23	23	0	0	0	0	0	24	23	20	24	0	0	0	0
SEPT	20	0	20	0	0	12	0	0	0	0	21	20	0	0	0	1	0	24	24	0	24	0	0	23	0
SEPT	21	0	22	0	0	0	0	0	0	0	23	23	0	0	0	24	0	24	24	0	24	0	0	17	0
SEPT	22	0	23	0	0	0	0	0	0	0	23	23	0	0	0	24	0	24	24	0	22	0	0	12	0
SEPT	23	0	24	0	0	0	0	0	0	0	23	23	0	6	0	24	0	24	24	0	23	0	0	11	0
SEPT	24	0	2	9	0	0	0	0	0	0	23	23	0	0	0	24	0	24	19	0	24	0	0	0	0
SEPT	25	0	13	23	0	0	0	0	0	0	23	22	0	0	0	24	0	24	8	0	24	0	0	0	0
SEPT	26	0	24	15	0	0	12	0	0	0	22	23	19	13	0	24	0	24	18	15	24	0	0	0	0
SEPT	27	0	23	24	0	0	24	0	0	0	22	22	0	23	0	24	0	24	8	23	24	0	0	0	0
SEPT	28	0	15	24	0	8	24	0	16	0	23	21	0	15	0	24	0	24	0	23	24	0	0	0	0
SEPT	29	9	23	21	0	17	24	0	17	0	21	15	24	0	0	24	0	23	0	22	24	0	0	0	0
SEPT	30	24	31	24	0	24	24	0	24	0	22	23	24	0	0	24	0	10	0	0	24	0	0	22	0
OCT	1	24	24	16	0	24	24	0	24	0	23	23	24	0	0	24	0	9	0	0	24	0	0	21	0
OCT	2	23	37	19	0	24	19	0	24	0	15	23	20	0	0	20	0	23	0	0	24	0	0	20	0
OCT	3	24	23	5	0	24	20	0	22	0	21	23	21	0	0	24	0	46	7	0	36	0	0	0	0
OCT	4	23	23	12	0	21	23	0	24	0	21	23	0	0	3	24	0	47	22	0	24	0	0	0	0
OCT	5	24	24	24	0	24	14	0	22	0	23	23	0	0	20	24	0	45	24	0	24	0	0	0	0
OCT	6	23	22	22	0	22	24	0	24	0	23	23	0	0	14	24	0	43	24	0	24	0	0	0	0
OCT	7	24	21	24	0	24	21	0	22	0	23	23	0	0	0	24	0	22	24	0	24	23	18	0	0
OCT	8	24	24	23	0	21	24	0	24	0	23	23	0	0	0	24	0	22	24	0	24	23	22	0	0
OCT	9	23	22	24	0	24	23	0	22	0	22	23	0	0	0	24	0	22	24	0	24	18	17	0	0
OCT	10	24	24	23	0	23	24	0	16	0	23	23	24	0	0	24	0	23	24	0	24	0	0	0	0
OCT	11	23	23	24	0	24	22	0	10	0	22	23	24	0	0	24	0	16	24	0	22	0	0	0	0
OCT	12	24	24	22	0	22	24	0	24	0	22	22	23	0	0	24	0	19	20	0	24	0	0	0	0

TABLE D-2. NUMBER OF HOURS RECORDED FOR NO_x

		- SITE NUMBER -																						
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
SEPT	15	0	23	0	0	0	0	0	0	0	22	23	0	0	0	0	0	0	0	0	20	0	0	0	0
SEPT	16	0	24	0	0	0	0	0	0	0	23	23	0	23	0	0	0	0	0	0	24	0	0	0	0
SEPT	17	0	24	0	0	0	0	0	0	0	23	23	0	20	0	0	0	0	0	0	23	0	0	0	0
SEPT	18	0	23	0	0	0	0	0	0	0	23	22	0	0	0	0	0	0	0	23	24	0	0	0	0
SEPT	19	0	24	0	0	0	0	0	0	0	23	23	0	0	0	0	0	0	0	20	24	0	0	0	0
SEPT	20	0	20	0	0	13	0	0	0	0	21	20	0	0	0	1	0	0	0	0	24	0	0	23	0
SEPT	21	0	22	0	0	24	0	0	0	0	23	23	0	0	0	24	0	0	0	0	24	0	0	17	0
SEPT	22	0	23	0	0	24	0	0	0	0	23	23	0	0	0	24	0	0	0	0	24	0	0	12	0
SEPT	23	0	24	0	0	24	0	0	0	0	23	23	0	6	0	24	0	0	0	0	24	0	0	11	0
SEPT	24	0	2	9	0	24	0	0	0	0	23	23	0	0	0	24	0	0	0	0	24	0	0	0	0
SEPT	25	0	13	23	0	24	0	0	0	0	23	22	6	0	0	24	0	0	0	0	24	0	0	0	0
SEPT	26	0	24	15	0	24	12	0	0	0	22	23	19	13	0	24	0	0	0	15	24	0	0	0	0
SEPT	27	0	23	24	0	24	24	0	0	0	22	22	14	23	0	24	0	0	0	23	24	0	0	0	0
SEPT	28	0	15	24	0	16	24	0	6	0	23	21	13	15	0	24	0	0	0	23	24	0	0	0	0
SEPT	29	0	23	21	0	17	23	0	17	0	21	15	24	0	0	24	0	0	0	22	24	0	0	0	0
SEPT	30	0	31	22	0	24	24	0	24	0	22	23	24	0	0	24	0	0	0	0	24	0	0	22	0
OCT	1	0	24	15	0	24	24	0	24	0	23	23	24	0	0	24	0	0	0	0	24	0	0	21	0
OCT	2	15	37	21	0	24	19	0	24	0	15	23	20	0	0	24	0	0	0	0	24	0	0	20	0
OCT	3	24	23	17	0	24	20	0	22	0	21	23	21	0	0	24	0	22	0	0	37	0	0	0	0
OCT	4	23	23	22	0	21	24	0	24	0	21	23	0	0	3	24	0	23	0	0	24	0	0	0	0
OCT	5	24	24	24	0	24	22	0	22	0	23	23	0	0	20	24	0	22	0	0	24	0	0	0	0
OCT	6	23	22	22	0	22	24	0	24	0	23	23	0	0	14	24	0	20	0	0	24	0	0	0	0
OCT	7	24	21	24	0	24	21	0	22	0	23	23	0	0	0	24	0	0	0	0	24	23	18	0	0
OCT	8	24	24	23	0	21	24	0	24	0	23	23	0	0	0	24	0	0	0	0	24	23	22	0	0
OCT	9	23	22	24	0	24	23	0	22	0	22	23	24	0	0	24	0	0	0	0	24	18	17	0	0
OCT	10	24	24	23	0	23	24	0	16	0	23	23	24	0	0	24	0	0	0	0	24	0	0	0	0
OCT	11	23	23	24	0	24	21	0	10	0	22	23	24	0	0	24	0	0	0	0	22	0	0	0	0
OCT	12	24	24	22	0	22	24	0	24	0	22	22	23	0	0	24	0	0	0	0	24	0	0	0	0

TABLE D-3. NUMBER OF HOURS RECORDED FOR O_3

		- SITE NUMBER -																						
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
SEPT	15	23	23	9	3	0	3	23	0	21	8	0	0	0	0	0	21	17	0	0	11	0	0	0	0
SEPT	16	24	24	9	0	0	0	24	0	24	24	6	0	23	0	0	23	14	0	0	23	0	0	0	0
SEPT	17	24	24	17	13	0	16	23	0	24	24	24	0	20	0	0	23	23	0	0	23	0	0	0	0
SEPT	18	23	23	18	21	15	14	12	23	22	24	24	12	0	0	0	23	23	11	23	23	0	0	0	0
SEPT	19	24	24	12	12	22	13	0	22	23	24	24	24	0	0	0	23	24	24	21	24	0	0	0	0
SEPT	20	23	20	9	0	22	9	0	21	23	24	24	24	0	0	2	23	24	24	0	24	0	0	23	0
SEPT	21	23	22	8	0	22	13	0	23	23	24	24	24	0	0	48	23	24	24	0	24	0	0	17	0
SEPT	22	23	23	23	0	23	11	0	18	23	24	24	24	0	0	48	7	22	24	0	24	0	0	12	0
SEPT	23	24	24	15	0	20	0	8	23	24	24	24	24	8	0	48	23	24	24	0	24	0	0	11	0
SEPT	24	24	2	0	0	23	23	24	23	24	24	23	24	0	0	48	23	24	19	0	24	0	0	0	0
SEPT	25	23	13	0	0	23	7	23	22	23	24	24	20	0	0	48	23	24	8	0	24	0	0	0	0
SEPT	26	23	24	0	0	21	0	21	21	23	24	24	22	13	0	48	23	24	19	16	24	0	0	0	0
SEPT	27	18	23	0	0	23	6	23	23	24	24	21	15	23	0	48	23	24	24	24	24	0	0	0	0
SEPT	28	23	15	20	0	15	23	23	22	23	24	24	24	24	0	48	23	24	24	23	24	0	0	0	0
SEPT	29	23	23	15	0	14	18	23	17	23	19	24	24	0	0	44	21	23	24	22	24	0	0	0	0
SEPT	30	24	36	12	0	10	12	23	6	23	22	22	24	0	0	38	23	13	17	0	23	0	0	22	0
OCT	1	24	24	16	0	13	0	0	16	24	24	24	24	0	0	48	23	9	24	0	23	0	0	19	0
OCT	2	23	49	23	0	12	0	8	22	22	23	19	23	0	0	40	23	24	24	0	24	0	0	20	0
OCT	3	24	23	23	0	11	0	7	13	23	23	23	22	0	0	48	18	46	24	0	50	0	0	0	0
OCT	4	23	23	23	0	16	7	0	22	24	23	23	23	0	3	48	23	47	22	0	24	0	0	0	0
OCT	5	24	24	23	0	16	17	0	17	24	23	24	12	0	40	48	23	45	24	0	24	0	0	0	0
OCT	6	23	22	23	0	20	14	11	7	23	22	22	14	0	30	48	23	43	24	0	24	0	0	0	0
OCT	7	24	21	17	0	19	0	23	0	24	24	0	24	0	0	48	23	22	24	0	24	23	36	0	0
OCT	8	24	24	16	0	15	0	0	11	24	24	0	24	0	0	48	23	22	24	0	24	23	44	0	0
OCT	9	23	22	15	13	14	11	12	21	24	23	8	23	0	0	48	23	22	24	0	24	18	34	0	0
OCT	10	24	24	12	13	14	6	22	13	23	23	23	23	0	0	48	23	23	24	0	23	0	0	0	0
OCT	11	23	23	18	5	15	15	6	0	23	23	23	15	0	0	48	23	16	24	0	23	0	0	0	0
OCT	12	24	24	23	0	8	9	0	0	23	23	15	22	0	0	48	23	17	20	0	23	0	0	0	0

TABLE D-4. NUMBER OF HOURS RECORDED FOR NO_2

	- SITE NUMBER -																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
SEPT 15	0	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	0	0	10	0	0	0	0
SEPT 16	0	24	0	0	0	0	0	0	0	0	0	0	23	0	0	0	24	0	0	24	0	0	0	0
SEPT 17	0	24	0	0	0	0	0	0	0	0	0	0	20	0	0	0	21	0	0	23	0	0	0	0
SEPT 18	0	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	0	23	24	0	0	0	0
SEPT 19	0	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	20	24	0	0	0	0
SEPT 20	0	20	0	0	12	0	0	0	0	0	0	0	0	0	1	0	24	0	0	24	0	0	23	0
SEPT 21	0	22	0	0	0	0	0	0	0	0	0	0	0	0	24	0	24	0	0	24	0	0	17	0
SEPT 22	0	23	0	0	0	0	0	0	0	0	0	0	0	0	24	0	24	0	0	24	0	0	12	0
SEPT 23	0	24	0	0	0	0	0	0	0	0	0	0	7	0	24	0	24	0	0	24	0	0	11	0
SEPT 24	0	2	9	0	0	0	0	0	0	0	0	0	0	0	24	0	24	0	0	24	0	0	0	0
SEPT 25	0	13	18	0	0	0	0	0	0	0	0	6	0	0	24	0	24	0	0	24	0	0	0	0
SEPT 26	0	24	15	0	0	12	0	0	0	0	0	19	13	0	24	0	24	0	15	24	0	0	0	0
SEPT 27	0	23	13	0	0	24	0	0	0	0	0	14	23	0	24	0	24	7	23	24	0	0	0	0
SEPT 28	0	15	11	0	8	24	0	6	0	0	0	13	15	0	24	0	24	0	23	24	0	0	0	0
SEPT 29	0	23	21	0	17	23	0	17	0	0	0	24	0	0	24	0	24	0	22	23	0	0	0	0
SEPT 30	0	31	22	0	23	22	0	24	0	0	0	24	0	0	24	0	13	0	0	24	0	0	22	0
OCT 1	0	24	15	0	22	22	0	24	0	0	0	24	0	0	24	0	9	0	0	23	0	0	21	0
OCT 2	15	37	19	0	22	19	0	24	0	0	0	20	0	0	20	0	11	0	0	24	0	0	20	0
OCT 3	24	23	5	0	23	20	0	22	0	0	0	21	0	0	24	0	22	7	0	37	0	0	0	0
OCT 4	23	23	12	0	20	23	0	24	0	0	0	0	0	3	24	0	23	22	0	24	0	0	0	0
OCT 5	24	24	24	0	24	14	0	22	0	0	0	0	0	20	24	0	22	24	0	24	0	0	0	0
OCT 6	23	22	22	0	21	24	0	24	0	0	0	0	0	14	24	0	20	24	0	24	0	0	0	0
OCT 7	24	21	24	0	22	21	0	22	0	0	0	0	0	0	24	0	0	24	0	24	23	18	0	0
OCT 8	24	24	23	0	20	23	0	24	0	0	0	0	0	0	24	0	0	24	0	24	23	22	0	0
OCT 9	23	22	24	0	24	23	0	22	0	0	0	24	0	0	24	0	0	24	0	24	18	17	0	0
OCT 10	24	24	23	0	22	24	0	16	0	0	0	22	0	0	24	0	0	24	0	24	0	0	0	0
OCT 11	23	23	24	0	24	21	0	10	0	0	0	24	0	0	24	0	0	24	0	21	0	0	0	0
OCT 12	24	24	22	0	21	19	0	24	0	0	0	22	0	0	24	0	0	20	0	24	0	0	0	0

TABLE D-5. NUMBER OF HOURS RECORDED FOR TS

	- SITE NUMBER -																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
SEPT 15	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SEPT 16	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0
SEPT 17	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	0	0	0	0
SEPT 18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
SEPT 19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
SEPT 20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
SEPT 21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
SEPT 22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
SEPT 23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
SEPT 29	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TABLE D-6. NUMBER OF HOURS RECORDED FOR SO_2

	- SITE NUMBER -																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
SEPT 15	23	23	0	0	0	0	0	0	0	23	23	0	0	0	0	0	0	0	0	0	0	0	0	0
SEPT 16	24	24	0	0	0	0	0	0	0	23	23	0	23	0	0	0	0	0	0	0	0	0	0	0
SEPT 17	24	24	0	0	0	0	0	0	0	23	23	0	20	0	0	0	0	0	0	0	0	0	0	0
SEPT 18	23	23	0	0	0	0	0	0	0	23	23	0	0	0	0	0	0	0	0	0	0	0	0	0
SEPT 19	24	24	0	0	0	0	0	0	0	23	23	0	0	0	0	0	0	0	0	0	0	0	0	0
SEPT 20	23	20	0	17	0	0	0	0	0	23	23	0	0	0	0	0	0	0	0	0	0	0	23	0
SEPT 21	23	22	0	7	0	0	0	0	0	23	23	0	0	0	0	0	0	0	0	0	0	0	0	0
SEPT 22	23	12	0	5	0	0	0	0	0	23	23	0	0	0	0	0	0	0	0	0	0	0	0	0
SEPT 23	24	0	0	0	0	0	0	0	0	23	23	0	0	0	0	0	0	0	0	0	0	0	0	0
SEPT 24	24	0	0	0	0	0	0	0	0	23	23	0	0	0	0	0	0	0	0	0	0	0	0	0
SEPT 25	23	12	0	5	0	0	0	0	0	23	23	0	0	0	0	0	0	0	0	0	0	0	0	0
SEPT 26	24	24	0	6	0	0	0	0	0	22	23	0	0	0	0	0	0	0	16	0	0	0	0	0
SEPT 27	22	23	0	0	0	0	0	0	0	23	23	0	0	0	0	0	0	0	20	0	0	0	0	0
SEPT 28	23	15	0	1	0	0	0	0	0	23	22	0	0	0	0	0	0	0	23	0	0	0	0	0
SEPT 29	13	23	0	1	0	0	0	0	0	22	19	0	0	0	0	0	0	0	22	0	0	0	0	0
SEPT 30	0	31	0	0	0	0	0	0	0	22	23	0	0	0	0	0	0	0	0	0	0	0	0	0
OCT 1	0	24	0	17	0	0	0	0	0	23	23	0	0	0	0	0	0	0	0	0	0	0	20	0
OCT 2	0	35	0	11	0	0	0	0	0	20	23	0	0	0	0	0	0	0	0	0	0	0	0	0
OCT 3	0	23	0	9	0	0	0	0	0	23	21	0	0	0	0	0	0	0	0	8	0	0	0	0
OCT 4	0	23	0	4	0	0	0	0	0	23	20	0	0	0	0	0	0	0	0	0	0	0	0	0
OCT 5	0	24	0	2	0	0	0	0	0	23	23	0	0	20	0	0	0	0	0	0	0	0	0	0
OCT 6	0	12	0	0	0	0	0	0	0	23	23	0	0	0	0	0	0	0	0	0	0	0	0	0
OCT 7	0	0	0	8	0	0	0	0	0	23	23	0	0	0	0	0	0	0	0	0	23	17	0	0
OCT 8	0	0	0	10	0	0	0	0	0	23	23	0	0	0	0	0	0	0	0	0	23	22	0	0
OCT 9	0	12	0	18	0	0	0	0	0	22	23	0	0	0	0	0	0	0	0	0	18	0	0	0
OCT 10	0	24	0	15	0	0	0	0	0	23	23	0	0	0	0	0	0	0	0	0	0	0	0	0
OCT 11	0	23	0	10	0	0	0	0	0	23	23	0	0	0	0	0	0	0	0	0	0	0	0	0
OCT 12	12	24	0	11	0	0	0	0	0	23	23	0	0	0	0	0	0	0	0	0	0	0	0	0

TABLE D-7. NUMBER OF HOURS RECORDED FOR THC

	- SITE NUMBER -																					
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
SEPT 15	23	22	24	24	24	3	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
SEPT 16	24	24	24	24	24	0	24	24	0	0	0	0	0	0	0	0	0	0	0	11	0	0	0	0
SEPT 17	24	24	24	24	24	16	24	24	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	18
SEPT 18	23	23	24	24	24	14	24	24	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	24
SEPT 19	24	24	24	24	24	13	0	24	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	24
SEPT 20	23	20	24	24	24	10	0	24	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	24
SEPT 21	23	22	24	24	24	13	0	24	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	24
SEPT 22	23	23	24	24	24	11	0	24	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	24
SEPT 23	24	24	24	24	24	0	24	24	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	24
SEPT 24	17	2	24	10	24	24	24	24	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	24
SEPT 25	0	13	24	24	24	9	24	24	0	0	0	0	0	0	0	0	0	0	0	20	0	0	0	24
SEPT 26	9	24	24	24	24	0	24	24	0	0	0	0	0	0	0	0	0	0	0	23	0	0	0	24
SEPT 27	19	23	24	23	24	6	24	24	0	0	0	0	0	0	0	0	0	0	0	23	0	0	0	24
SEPT 28	23	15	24	14	24	24	24	24	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	24
SEPT 29	23	23	24	24	24	19	24	18	0	0	0	0	0	0	0	0	0	0	0	17	0	0	0	24
SEPT 30	24	24	24	24	24	12	24	6	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	24
OCT 1	24	24	24	24	24	0	0	24	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	24
OCT 2	23	22	24	24	24	0	24	24	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	24
OCT 3	24	23	24	24	24	0	24	24	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	24
OCT 4	23	23	24	24	24	7	0	24	0	0	0	0	0	0	0	0	0	0	0	23	0	0	0	24
OCT 5	24	24	24	24	24	21	0	24	0	0	0	0	0	0	0	0	0	0	0	22	0	0	0	24
OCT 6	23	7	24	24	24	14	24	24	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	24
OCT 7	24	0	24	24	24	0	24	24	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	24
OCT 8	24	0	24	24	24	0	0	24	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	24
OCT 9	23	12	24	24	24	11	24	24	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	24
OCT 10	24	21	24	24	24	6	24	24	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	24
OCT 11	23	21	24	24	24	16	24	24	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	24
OCT 12	24	23	24	24	24	10	0	24	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	24

TABLE D-8. NUMBER OF HOURS RECORDED FOR NMHC

		- SITE NUMBER -																					
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
SEPT	15	23	22	22	9	22	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SEPT	16	24	24	23	8	23	0	0	24	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0
SEPT	17	24	24	23	0	23	0	0	24	0	0	0	0	0	0	0	0	0	0	0	18	0	0	0	0
SEPT	18	23	23	20	10	20	0	0	21	0	0	0	0	0	0	0	0	0	0	0	11	0	0	0	0
SEPT	19	24	24	24	23	21	0	0	21	0	0	0	0	0	0	0	0	24	0	0	12	0	0	0	0
SEPT	20	23	20	19	7	20	0	0	19	0	0	0	0	0	0	0	0	23	0	0	22	0	0	0	0
SEPT	21	23	22	18	3	19	0	0	10	0	0	0	0	0	0	0	0	24	0	0	13	0	0	0	0
SEPT	22	23	23	18	13	17	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
SEPT	23	24	24	23	23	23	0	0	0	0	0	0	0	0	0	0	0	19	0	0	0	0	0	0	0
SEPT	24	16	2	23	10	22	0	0	0	0	0	0	0	0	0	0	0	17	0	0	0	0	0	0	0
SEPT	25	0	13	16	20	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
SEPT	26	9	24	12	16	16	0	0	0	0	0	0	0	0	0	0	0	15	0	0	10	0	0	0	0
SEPT	27	19	23	15	12	15	0	0	0	0	0	0	0	0	0	0	0	24	0	0	10	0	0	0	0
SEPT	28	23	15	18	10	14	0	0	0	0	0	0	0	0	0	0	0	24	0	0	7	0	0	0	0
SEPT	29	23	23	7	6	7	0	0	0	0	0	0	0	0	0	0	0	17	0	0	13	0	0	0	0
SEPT	30	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	0	0	15	0	0	0	0
OCT	1	24	24	23	22	0	0	0	22	0	0	0	0	0	0	0	0	19	0	0	18	0	0	0	0
OCT	2	23	22	8	7	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	18	0	0	0	0
OCT	3	24	23	9	8	0	0	0	0	0	0	0	0	0	0	0	0	18	0	0	21	0	0	0	0
OCT	4	23	23	22	21	0	0	0	0	0	0	0	0	0	0	0	0	11	0	0	16	0	0	0	0
OCT	5	24	24	20	20	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	17	0	0	0	0
OCT	6	23	7	22	22	0	0	0	7	0	0	0	0	0	0	0	0	8	0	0	16	0	0	0	0
OCT	7	24	0	22	22	0	0	0	8	0	0	0	0	0	0	0	0	9	0	0	21	0	0	0	0
OCT	8	24	0	22	12	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	21	0	0	0	0
OCT	9	23	12	22	8	0	0	0	0	0	0	0	0	0	0	0	0	13	0	0	24	0	0	0	0
OCT	10	24	21	9	21	0	0	0	0	0	0	0	0	0	0	0	0	15	0	0	24	0	0	0	0
OCT	11	23	21	0	6	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	14	0	0	0	0
OCT	12	24	23	0	3	1	0	0	0	0	0	0	0	0	0	0	0	11	0	0	12	0	0	0	0

TABLE D-9. NUMBER OF HOURS RECORDED FOR CH_4

		- SITE NUMBER -																						
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
SEPT	15	23	23	22	9	22	0	0	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SEPT	16	24	24	23	8	23	0	0	24	0	0	0	0	0	0	0	0	0	0	0	11	0	0	0	0
SEPT	17	24	24	23	0	23	0	0	24	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
SEPT	18	23	23	20	9	20	0	0	20	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
SEPT	19	24	24	24	23	21	0	0	21	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
SEPT	20	23	20	19	7	20	0	0	18	0	0	0	0	0	0	0	0	23	0	0	24	0	0	0	0
SEPT	21	23	22	18	0	19	0	0	20	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
SEPT	22	23	23	23	13	17	0	0	10	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
SEPT	23	24	24	23	23	23	0	0	0	0	0	0	0	0	0	0	0	21	0	0	24	0	0	0	0
SEPT	24	17	2	23	10	22	0	0	0	0	0	0	0	0	0	0	0	33	0	0	24	0	0	0	0
SEPT	25	0	13	13	20	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
SEPT	26	9	24	7	16	16	0	0	0	0	0	0	0	0	0	0	0	24	0	0	20	0	0	0	0
SEPT	27	19	23	15	12	15	0	0	0	0	0	0	0	0	0	0	0	24	0	0	23	0	0	0	0
SEPT	28	23	15	18	10	14	0	0	0	0	0	0	0	0	0	0	0	24	0	0	23	0	0	0	0
SEPT	29	23	23	7	0	7	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
SEPT	30	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	0	0	17	0	0	0	0
OCT	1	24	24	23	22	0	0	0	22	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
OCT	2	23	22	9	9	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
OCT	3	24	23	9	8	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
OCT	4	23	23	22	23	0	0	0	0	0	0	0	0	0	0	0	0	22	0	0	24	0	0	0	0
OCT	5	24	24	19	20	0	0	0	0	0	0	0	0	0	0	0	0	23	0	0	23	0	0	0	0
OCT	6	23	7	22	22	0	0	0	7	0	0	0	0	0	0	0	0	24	0	0	22	0	0	0	0
OCT	7	24	0	22	20	0	0	0	22	0	0	0	0	0	0	0	0	15	0	0	24	0	0	0	0
OCT	8	24	0	21	12	0	0	0	8	0	0	0	0	0	0	0	0	12	0	0	24	0	0	0	0
OCT	9	23	12	22	8	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
OCT	10	24	21	9	21	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
OCT	11	23	21	0	6	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
OCT	12	24	24	0	3	1	0	0	1	0	0	0	0	0	0	0	0	20	0	0	24	0	0	0	0

TABLE D-10. NUMBER OF HOURS RECORDED FOR CO

		- SITE NUMBER -																						
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
SEPT	15	23	23	23	9	22	0	0	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SEPT	16	24	24	23	8	23	0	0	24	0	0	0	0	0	0	0	0	0	0	0	11	0	0	0	0
SEPT	17	24	24	23	0	23	0	0	24	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
SEPT	18	23	23	23	9	20	0	0	20	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
SEPT	19	24	24	24	23	21	0	0	21	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
SEPT	20	23	20	18	10	20	0	0	18	0	0	0	0	0	0	1	0	0	0	0	24	0	0	0	0
SEPT	21	23	22	22	0	19	0	0	20	0	0	0	0	0	0	24	0	24	0	0	24	0	0	0	0
SEPT	22	23	23	23	11	17	0	0	18	0	0	0	0	0	0	24	0	24	0	0	24	0	0	0	0
SEPT	23	24	24	23	10	23	0	0	13	0	0	0	0	7	0	24	0	21	0	0	24	0	0	0	0
SEPT	24	17	2	23	10	22	0	0	0	0	0	0	0	0	0	24	0	33	0	0	24	0	0	0	0
SEPT	25	0	13	13	10	21	0	0	0	0	0	0	0	0	0	24	0	0	0	0	24	0	0	0	0
SEPT	26	9	24	0	21	16	0	0	0	0	0	0	0	13	0	24	0	24	0	0	20	0	0	0	0
SEPT	27	19	23	16	17	15	0	0	0	0	0	0	0	0	0	24	0	24	0	0	23	0	0	0	0
SEPT	28	23	15	9	9	14	0	0	0	0	0	0	0	15	0	24	0	24	0	0	23	0	0	0	0
SEPT	29	23	23	13	12	7	0	0	0	0	0	0	0	0	0	24	0	24	0	0	24	0	0	0	0
SEPT	30	24	31	21	22	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	17	0	0	0	0
OCT	1	24	24	23	24	0	0	0	0	0	0	0	0	0	0	24	0	24	0	0	24	0	0	0	0
OCT	2	23	35	21	24	0	0	0	0	0	0	0	0	0	0	20	0	24	0	0	24	0	0	0	0
OCT	3	24	23	22	19	0	0	0	0	0	0	0	0	0	0	24	0	24	0	0	37	0	0	0	0
OCT	4	23	23	22	23	0	0	0	0	0	0	0	0	0	3	24	0	22	0	0	24	0	0	0	0
OCT	5	24	24	23	22	0	0	0	0	0	0	0	0	0	20	24	0	23	0	0	23	0	0	0	0
OCT	6	23	7	23	23	0	0	0	6	0	0	0	0	0	15	24	0	24	0	0	22	0	0	0	0
OCT	7	24	0	23	23	0	0	0	22	0	0	0	0	0	0	24	0	13	0	0	24	0	18	0	0
OCT	8	24	0	10	23	0	0	0	21	0	0	0	0	0	0	24	0	14	0	0	24	0	22	0	0
OCT	9	23	12	0	23	0	0	0	21	0	0	0	0	0	0	24	0	24	0	0	24	0	17	0	0
OCT	10	24	21	0	22	0	0	0	12	0	0	0	0	0	0	24	0	24	0	0	24	0	0	0	0
OCT	11	23	21	0	23	0	0	0	0	0	0	0	0	0	0	24	0	24	0	0	24	0	0	0	0
OCT	12	24	24	0	22	0	0	0	1	0	0	0	0	0	0	24	0	20	0	0	24	0	0	0	0

TABLE D-11. NUMBER OF HOURS RECORDED FOR PAN

	- SITE NUMBER -																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
SEPT 19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0
SEPT 20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0
SEPT 21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0
SEPT 22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0
SEPT 23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0
SEPT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0
SEPT 25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	0	0	0	0
SEPT 26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	0	0	0	0
SEPT 27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	0	0	0	0
SEPT 28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	0	0	0	0
SEPT 29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0
SEPT 30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0
OCT 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	0	0	0	0
OCT 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0
OCT 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	4	0	0	0	0
OCT 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	0	8	0	0	0	0
OCT 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	0	13	0	0	0	0
OCT 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	15	0	0	0	0
OCT 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	0	15	0	0	0	0
OCT 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	0	19	0	0	0	0
OCT 9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	24	0	0	0	0
OCT 10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	0	16	0	0	0	0
OCT 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	0	8	0	0	0	0
OCT 12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	0	9	0	0	0	0

TABLE D-12. NUMBER OF HOURS RECORDED FOR FREON

	- SITE NUMBER -																						
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
SEPT 15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0
SEPT 16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0
SEPT 17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	0	0	0	0	0	0	0
SEPT 18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	0	0	9	0	0	0	0
SEPT 19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
SEPT 20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	0	0	24	0	0	0	0
SEPT 21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
SEPT 22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
SEPT 23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
SEPT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
SEPT 25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	23	0	0	0	0
SEPT 26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
SEPT 27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
SEPT 28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
SEPT 29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	23	0	0	0	0
SEPT 30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	21	0	0	0	0
OCT 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	18	0	0	0	0
OCT 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	22	0	0	0	0
OCT 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
OCT 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
OCT 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
OCT 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
OCT 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
OCT 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
OCT 9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
OCT 10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
OCT 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	23	0	0	0	0
OCT 12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	23	0	0	0	0

TABLE D-13. NUMBER OF HOURS RECORDED FOR RS WS

		- SITE NUMBER -																						
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
SEPT	15	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SEPT	16	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SEPT	17	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SEPT	18	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SEPT	19	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SEPT	20	24	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SEPT	21	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SEPT	22	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SEPT	23	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SEPT	24	24	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SEPT	25	24	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SEPT	26	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SEPT	27	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SEPT	28	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SEPT	29	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SEPT	30	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OCT	1	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OCT	2	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OCT	3	24	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OCT	4	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OCT	5	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OCT	6	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OCT	7	24	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OCT	8	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OCT	9	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OCT	10	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OCT	11	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OCT	12	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TABLE D-14. NUMBER OF HOURS RECORDED FOR CCl_4

	- SITE NUMBER -																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
SEPT 15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0
SEPT 16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0
SEPT 17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0
SEPT 18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	0	0	0	0	0	0	0
SEPT 19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	0	0	9	0	0	0	0
SEPT 20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
SEPT 21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	0	0	24	0	0	0	0
SEPT 22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
SEPT 23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
SEPT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
SEPT 25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
SEPT 26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	23	0	0	0	0
SEPT 27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
SEPT 28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
SEPT 29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
SEPT 30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	23	0	0	0	0
OCT 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	0	0	23	0	0	0	0
OCT 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	18	0	0	0	0
OCT 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
OCT 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	22	0	0	0	0
OCT 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
OCT 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
OCT 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
OCT 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48	0	0	24	0	0	0	0
OCT 9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
OCT 10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
OCT 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	21	0	0	0	0
OCT 12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	21	0	0	0	0

TABLE D-15. NUMBER OF HOURS RECORDED FOR RS WD

	- SITE NUMBER -																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
SEPT 15	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SEPT 16	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SEPT 17	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SEPT 18	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SEPT 19	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SEPT 20	24	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SEPT 21	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SEPT 22	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SEPT 23	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SEPT 24	24	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SEPT 25	24	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SEPT 26	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SEPT 27	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SEPT 28	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SEPT 29	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SEPT 30	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OCT 1	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OCT 2	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OCT 3	24	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OCT 4	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OCT 5	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OCT 6	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OCT 7	24	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OCT 8	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OCT 9	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OCT 10	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OCT 11	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OCT 12	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TABLE D-16. NUMBER OF HOURS RECORDED FOR VIS

	- SITE NUMBER -																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
SEPT 17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	0	0	0	0

TABLE D-17. NUMBER OF HOURS RECORDED FOR WS

	- SITE NUMBER -																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
SEPT 15	24	24	0	0	0	0	0	0	0	24	8	0	0	0	0	0	24	19	0	0	0	0	0	1
SEPT 16	24	24	0	0	0	0	0	0	0	24	0	0	12	0	0	0	24	12	0	0	0	0	0	0
SEPT 17	24	24	0	0	0	0	0	0	0	24	9	0	20	0	0	0	24	21	0	0	0	0	0	18
SEPT 18	24	24	0	0	0	0	0	0	0	24	24	0	0	0	0	0	24	24	24	0	0	0	0	24
SEPT 19	24	24	0	0	0	0	0	0	0	24	24	0	0	0	0	0	24	24	21	0	0	0	0	24
SEPT 20	24	20	0	0	0	0	0	0	0	21	24	0	0	0	1	0	23	23	0	0	0	0	24	23
SEPT 21	24	24	0	0	0	0	0	0	0	24	24	0	0	0	24	0	24	24	0	0	0	0	18	24
SEPT 22	24	24	0	0	0	0	0	0	0	24	23	0	0	0	24	0	24	24	0	0	0	0	12	24
SEPT 23	24	24	0	0	0	0	0	0	0	24	24	0	0	0	24	0	24	24	0	0	0	0	12	24
SEPT 24	24	2	0	0	0	0	0	0	0	24	24	0	0	0	24	0	24	19	0	0	0	0	0	24
SEPT 25	24	14	0	0	0	0	0	0	0	24	24	0	0	0	24	0	24	5	0	0	0	0	0	24
SEPT 26	24	24	0	0	0	0	0	0	0	24	24	0	0	0	24	0	24	19	16	0	0	0	0	24
SEPT 27	24	24	0	0	0	0	0	0	0	24	24	0	0	0	24	0	24	24	24	0	0	0	0	24
SEPT 28	24	24	0	0	0	0	0	0	0	24	24	0	0	0	24	0	24	24	24	0	0	0	0	24
SEPT 29	24	24	0	0	0	0	0	0	0	24	23	0	0	0	24	0	24	20	22	0	0	0	0	24
SEPT 30	24	24	0	0	0	0	0	0	0	23	24	0	0	0	24	0	21	10	0	0	0	0	22	24
OCT 1	24	24	0	0	0	0	0	0	0	24	24	0	0	0	24	0	17	14	0	0	0	0	24	24
OCT 2	24	24	0	0	0	0	0	0	0	24	24	0	0	0	19	0	14	12	0	0	0	0	18	24
OCT 3	24	23	0	0	0	0	0	0	0	24	24	0	0	0	2	0	14	18	0	0	0	0	0	24
OCT 4	24	24	0	0	0	0	0	0	0	24	24	0	0	0	17	0	29	22	0	0	0	0	0	24
OCT 5	24	24	0	0	0	0	0	0	0	24	24	0	0	0	24	0	43	24	0	0	0	0	0	24
OCT 6	24	24	0	0	0	0	0	0	0	24	24	0	0	0	24	0	44	24	0	0	0	0	0	24
OCT 7	24	21	0	0	0	0	0	0	0	24	24	0	0	0	24	0	19	24	0	0	24	0	0	24
OCT 8	24	24	0	0	0	0	0	0	0	24	22	0	0	0	24	0	21	24	0	0	24	0	0	24
OCT 9	24	24	0	0	0	0	0	0	0	23	24	0	0	0	24	0	22	24	0	0	19	0	0	24
OCT 10	24	24	0	0	0	0	0	0	0	24	24	0	0	0	24	0	23	24	0	0	0	0	0	24
OCT 11	24	24	0	0	0	0	0	0	0	24	24	0	0	0	24	0	22	24	0	0	0	0	0	24
OCT 12	24	24	0	0	0	0	0	0	0	24	24	0	0	0	24	0	19	20	0	0	0	0	0	24

TABLE D-18. NUMBER OF HOURS RECORDED FOR WD

		- SITE NUMBER -																					
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
SEPT	15	24	24	0	0	0	0	0	0	0	24	8	0	0	0	0	0	22	19	0	0	0	0	0	1
SEPT	16	24	24	0	0	0	0	0	0	0	24	0	0	12	0	0	0	20	12	0	0	0	0	0	0
SEPT	17	24	24	0	0	0	0	0	0	0	24	9	0	20	0	0	0	24	24	0	0	0	0	0	18
SEPT	18	24	24	0	0	0	0	0	0	0	24	24	0	0	0	0	0	24	24	24	0	0	0	0	24
SEPT	19	24	24	0	0	0	0	0	0	0	24	24	0	0	0	0	0	22	24	21	0	0	0	0	24
SEPT	20	24	20	0	0	0	0	0	0	0	21	24	0	0	0	1	0	16	24	0	0	0	0	24	23
SEPT	21	24	24	0	0	0	0	0	0	0	24	24	0	0	0	24	0	22	23	0	0	0	0	18	24
SEPT	22	24	24	0	0	0	0	0	0	0	24	23	0	0	0	24	0	24	24	0	0	0	0	12	24
SEPT	23	24	24	0	0	0	0	0	0	0	24	24	0	0	0	24	0	22	24	0	0	0	0	12	19
SEPT	24	24	2	0	0	0	0	0	0	0	24	24	0	0	0	24	0	24	19	0	0	0	0	0	24
SEPT	25	24	14	0	0	0	0	0	0	0	24	24	0	0	0	24	0	24	8	0	0	0	0	0	24
SEPT	26	24	24	0	0	0	0	0	0	0	24	24	0	0	0	24	0	24	19	16	0	0	0	0	24
SEPT	27	24	24	0	0	0	0	0	0	0	24	24	0	0	0	24	0	24	24	24	0	0	0	0	24
SEPT	28	24	24	0	0	0	0	0	0	0	24	24	0	0	0	24	0	24	24	24	0	0	0	0	24
SEPT	29	24	24	0	0	0	0	0	0	0	24	23	0	0	0	24	0	18	24	22	0	0	0	0	24
SEPT	30	24	24	0	0	0	0	0	0	0	23	24	0	0	0	24	0	20	17	0	0	0	0	22	24
OCT	1	24	24	0	0	0	0	0	0	0	24	24	0	0	0	24	0	16	19	0	0	0	0	24	24
OCT	2	24	24	0	0	0	0	0	0	0	24	24	0	0	0	20	0	28	24	0	0	0	0	18	24
OCT	3	24	23	0	0	0	0	0	0	0	24	24	0	0	0	24	0	0	24	0	0	0	0	0	24
OCT	4	24	24	0	0	0	0	0	0	0	24	24	0	0	0	24	0	30	22	0	0	0	0	0	24
OCT	5	24	24	0	0	0	0	0	0	0	24	24	0	0	0	24	0	43	24	0	0	0	0	0	24
OCT	6	24	24	0	0	0	0	0	0	0	24	24	0	0	0	24	0	44	24	0	0	0	0	0	24
OCT	7	24	21	0	0	0	0	0	0	0	24	24	0	0	0	24	0	19	24	0	0	24	0	0	24
OCT	8	24	24	0	0	0	0	0	0	0	24	22	0	0	0	24	0	21	24	0	0	24	0	0	24
OCT	9	24	24	0	0	0	0	0	0	0	23	24	0	0	0	24	0	21	24	0	0	19	0	0	24
OCT	10	24	24	0	0	0	0	0	0	0	24	24	0	0	0	24	0	23	24	0	0	0	0	0	24
OCT	11	24	24	0	0	0	0	0	0	0	24	24	0	0	0	24	0	22	24	0	0	0	0	0	24
OCT	12	24	24	0	0	0	0	0	0	0	24	24	0	0	0	24	0	19	20	0	0	0	0	0	24

TABLE D-19. NUMBER OF HOURS RECORDED FOR TEMP

		- SITE NUMBER -																						
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
SEPT	15	24	24	0	0	0	0	0	0	0	24	24	0	0	0	0	0	24	19	0	24	0	0	0	0
SEPT	16	24	24	0	0	0	0	0	0	0	24	24	0	24	0	0	0	24	12	0	24	0	0	0	0
SEPT	17	24	24	0	0	0	0	0	0	0	24	20	0	20	0	0	0	24	24	0	24	0	0	0	0
SEPT	18	24	24	0	0	0	0	0	0	0	24	24	0	0	0	0	0	24	24	24	24	0	0	0	0
SEPT	19	24	24	0	0	0	0	0	0	0	24	24	0	0	0	0	0	24	24	21	24	0	0	0	0
SEPT	20	24	20	0	0	0	0	0	0	0	21	24	0	0	0	1	0	24	24	0	23	0	0	24	0
SEPT	21	24	24	0	0	0	0	0	0	0	24	24	0	0	0	24	0	24	24	0	24	0	0	18	0
SEPT	22	24	24	0	0	0	0	0	0	0	24	24	0	0	0	24	0	24	24	0	24	0	0	12	0
SEPT	23	24	24	0	0	0	0	0	0	0	24	24	0	0	0	24	0	24	24	0	24	0	0	12	0
SEPT	24	24	2	0	0	0	0	0	0	0	24	24	0	0	0	24	0	24	19	0	24	0	0	0	0
SEPT	25	24	14	0	0	0	0	0	0	0	24	24	0	0	0	24	0	24	8	0	24	0	0	0	0
SEPT	26	24	24	0	0	0	0	0	0	0	24	24	0	0	0	24	0	24	19	16	24	0	0	0	0
SEPT	27	24	24	0	0	0	0	0	0	0	24	24	0	0	0	24	0	24	24	24	24	0	0	0	0
SEPT	28	24	24	0	0	0	0	0	0	0	24	24	0	0	0	24	0	24	24	24	24	0	0	0	0
SEPT	29	24	24	0	0	0	0	0	0	0	24	23	0	0	0	24	0	24	24	21	24	0	0	0	0
SEPT	30	24	24	0	0	0	0	0	0	0	23	24	0	0	0	24	0	24	17	0	23	0	0	23	0
OCT	1	24	24	0	0	0	0	0	0	0	24	24	0	0	0	24	0	24	24	0	24	0	0	24	0
OCT	2	24	24	0	0	0	0	0	0	0	24	24	0	0	0	20	0	24	24	0	24	0	0	21	0
OCT	3	24	23	0	0	0	0	0	0	0	24	24	0	0	0	24	0	48	24	0	14	0	0	0	0
OCT	4	24	24	0	0	0	0	0	0	0	24	24	0	0	0	24	0	48	22	0	11	0	0	0	0
OCT	5	24	24	0	0	0	0	0	0	0	24	24	0	0	0	24	0	47	24	0	24	0	0	0	0
OCT	6	24	24	0	0	0	0	0	0	0	24	24	0	0	0	24	0	44	24	0	24	0	0	0	0
OCT	7	24	21	0	0	0	0	0	0	0	24	24	0	0	0	24	0	24	24	0	22	24	0	0	0
OCT	8	24	24	0	0	0	0	0	0	0	24	24	0	0	0	24	0	24	24	0	24	24	0	0	0
OCT	9	24	24	0	0	0	0	0	0	0	23	24	0	0	0	24	0	24	24	0	24	19	0	0	0
OCT	10	24	24	0	0	0	0	0	0	0	24	24	0	0	0	24	0	24	24	0	24	0	0	0	0
OCT	11	24	24	0	0	0	0	0	0	0	24	24	0	0	0	24	0	24	24	0	23	0	0	0	0
OCT	12	24	24	0	0	0	0	0	0	0	24	24	0	0	0	24	0	24	20	0	24	0	0	0	0

TABLE D-20. NUMBER OF HOURS RECORDED FOR DEW

		- SITE NUMBER -																						
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
SEPT	15	0	0	0	0	0	0	0	0	0	24	24	0	0	0	0	0	24	19	0	0	0	0	0	0
SEPT	16	0	0	0	0	0	0	0	0	0	24	24	0	24	0	0	0	24	12	0	0	0	0	0	0
SEPT	17	0	0	0	0	0	0	0	0	0	24	20	0	20	0	0	0	24	24	0	0	0	0	0	0
SEPT	18	0	0	0	0	0	0	0	0	0	24	24	0	0	0	0	0	24	24	24	0	0	0	0	0
SEPT	19	0	0	0	0	0	0	0	0	0	24	24	0	0	0	0	0	24	24	21	0	0	0	0	0
SEPT	20	0	0	0	0	0	0	0	0	0	21	24	0	0	0	0	0	24	24	0	0	0	0	24	0
SEPT	21	0	0	0	0	0	0	0	0	0	24	24	0	0	0	15	0	24	24	0	0	0	0	18	0
SEPT	22	0	0	0	0	0	0	0	0	0	24	24	0	0	0	24	0	24	24	0	0	0	0	12	0
SEPT	23	0	0	0	0	0	0	0	0	0	24	24	0	0	0	24	0	24	24	0	0	0	0	12	0
SEPT	24	0	0	0	0	0	0	0	0	0	24	24	0	0	0	24	0	24	19	0	0	0	0	0	0
SEPT	25	0	0	0	0	0	0	0	0	0	24	24	0	0	0	24	0	24	8	0	0	0	0	0	0
SEPT	26	0	0	0	0	0	0	0	0	0	24	24	0	0	0	24	0	24	19	16	0	0	0	0	0
SEPT	27	0	0	0	0	0	0	0	0	0	24	24	0	0	0	24	0	24	24	10	0	0	0	0	0
SEPT	28	0	0	0	0	0	0	0	0	0	24	24	0	0	0	24	0	24	24	23	0	0	0	0	0
SEPT	29	0	0	0	0	0	0	0	0	0	24	23	0	0	0	24	0	24	24	14	0	0	0	0	0
SEPT	30	0	0	0	0	0	0	0	0	0	23	24	0	0	0	24	0	24	17	0	0	0	0	23	0
OCT	1	0	0	0	0	0	0	0	0	0	24	24	0	0	0	24	0	24	24	0	0	0	0	24	0
OCT	2	0	0	0	0	0	0	0	0	0	24	24	0	0	0	20	0	24	24	0	0	0	0	21	0
OCT	3	0	0	0	0	0	0	0	0	0	24	24	0	0	0	24	0	48	24	0	0	0	0	0	0
OCT	4	0	0	0	0	0	0	0	0	0	24	24	0	0	0	24	0	48	22	0	0	0	0	0	0
OCT	5	0	0	0	0	0	0	0	0	0	24	24	0	0	0	24	0	33	24	0	0	0	0	0	0
OCT	6	0	0	0	0	0	0	0	0	0	24	24	0	0	0	24	0	44	24	0	0	0	0	0	0
OCT	7	0	0	0	0	0	0	0	0	0	24	24	0	0	0	24	0	24	24	0	0	24	0	0	0
OCT	8	0	0	0	0	0	0	0	0	0	24	24	0	0	0	24	0	24	24	0	0	24	0	0	0
OCT	9	0	0	0	0	0	0	0	0	0	23	24	0	0	0	24	0	24	24	0	0	17	0	0	0
OCT	10	0	0	0	0	0	0	0	0	0	24	24	0	0	0	24	0	24	24	0	0	0	0	0	0
OCT	11	0	0	0	0	0	0	0	0	0	24	24	0	0	0	24	0	24	24	0	0	0	0	0	0
OCT	12	0	0	0	0	0	0	0	0	0	24	24	0	0	0	24	0	24	20	0	0	0	0	0	0

TABLE D-21. NUMBER OF HOURS RECORDED FOR RH

	- SITE NUMBER -																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
SEPT 15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
SEPT 16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
SEPT 17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
SEPT 18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
SEPT 19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
SEPT 20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	0	0	0	0
SEPT 21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
SEPT 22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
SEPT 23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
SEPT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
SEPT 25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
SEPT 26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
SEPT 27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
SEPT 28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
SEPT 29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
SEPT 30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	0	0	0	0
OCT 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
OCT 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	0	0	0	0
OCT 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	0	0	0	0
OCT 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	0	0	0	0
OCT 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
OCT 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
OCT 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	0	0	0	0
OCT 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
OCT 9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
OCT 10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
OCT 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	0	0	0	0
OCT 12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0

TABLE D-22. NUMBER OF HOURS RECORDED FOR PRES

	- SITE NUMBER -																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
SEPT 15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0
SEPT 16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0
SEPT 17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0
SEPT 18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	3	0	0	0	0
SEPT 19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	6	0	0	0	0
SEPT 20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	6	0	0	0	0
SEPT 21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	6	0	0	0	0
SEPT 22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	6	0	0	0	0
SEPT 23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	5	0	0	0	0
SEPT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	6	0	0	0	0
SEPT 25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	6	0	0	0	0
SEPT 26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0
SEPT 27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0
SEPT 28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0
SEPT 29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0
SEPT 30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0
OCT 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0
OCT 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0
OCT 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0
OCT 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0
OCT 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0
OCT 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0
OCT 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0
OCT 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0
OCT 9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0
OCT 10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0
OCT 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0
OCT 12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0

TABLE D-23. NUMBER OF HOURS RECORDED FOR IRAD

	- SITE NUMBER -																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
SEPT 15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0
SEPT 16	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	24	0	0	0	0	0	0	0
SEPT 17	0	0	0	0	0	0	0	0	0	0	0	0	20	0	0	0	24	0	0	0	0	0	0	0
SEPT 18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	0	24	0	0	0	0	0
SEPT 19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	21	0	0	0	0	0
SEPT 20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	0	0	0	0	0	24	0
SEPT 21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	24	0	0	0	0	0	18	0
SEPT 22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	24	0	0	0	0	0	12	0
SEPT 23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	24	0	0	0	0	0	12	0
SEPT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	24	0	0	0	0	0	0	0
SEPT 25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	0	24	0	0	0	0	0	0	0
SEPT 26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	0	24	0	16	0	0	0	0	0
SEPT 27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	24	0	24	0	0	0	0	0
SEPT 28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	24	0	24	0	0	0	0	0
SEPT 29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	24	0	22	0	0	0	0	0
SEPT 30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	17	0	0	0	0	0	23	0
OCT 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	9	0	0	0	0	0	24	0
OCT 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	0	24	0	0	0	0	0	21	0
OCT 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	46	0	0	0	0	0	0	0
OCT 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	48	0	0	0	0	0	0	0
OCT 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	46	0	0	0	0	0	0	0
OCT 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	44	0	0	0	0	0	0	0
OCT 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	23	0	0	0	24	0	0	0
OCT 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	22	0	0	0	24	0	0	0
OCT 9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	24	0	0	0	19	0	0	0
OCT 10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	23	0	0	0	0	0	0	0
OCT 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	22	0	0	0	0	0	0	0
OCT 12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	23	0	0	0	0	0	0	0

TABLE D-24. NUMBER OF HOURS RECORDED FOR UV

	- SITE NUMBER -																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
SEPT 15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0
SEPT 16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
SEPT 17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	0	0	0	0
SEPT 18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
SEPT 19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
SEPT 20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
SEPT 21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
SEPT 22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
SEPT 23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
SEPT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
SEPT 25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
SEPT 26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
SEPT 27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
SEPT 28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
SEPT 29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
SEPT 30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	22	0
OCT 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0
OCT 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	21	0
OCT 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
OCT 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0
OCT 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	0	0	24	0	0	0	0
OCT 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	0	0	24	0	0	0	0
OCT 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	24	0	0	0
OCT 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	24	0	0	0
OCT 9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	19	0	0	0
OCT 10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
OCT 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
OCT 12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0

TABLE D-25. NUMBER OF HOURS RECORDED FOR PRECP

	- SITE NUMBER -																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
SEPT 20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
SEPT 21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
OCT 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2

TABLE D-26. NUMBER OF HOURS RECORDED FOR B_{scat}

	- SITE NUMBER -																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
SEPT 15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	0	0	0	0
SEPT 16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
SEPT 18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
SEPT 19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
SEPT 20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
SEPT 21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
SEPT 22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
SEPT 23	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	24	0	0	0	0
SEPT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
SEPT 25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
SEPT 26	0	0	0	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	24	0	0	0	0
SEPT 27	0	0	0	0	0	0	0	0	0	0	0	0	23	0	0	0	0	0	0	24	0	0	0	0
SEPT 28	0	0	0	0	0	0	0	0	0	0	0	0	15	0	0	0	0	0	0	24	0	0	0	0
SEPT 29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
SEPT 30	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
OCT 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
OCT 2	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
OCT 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37	0	0	0	0
OCT 4	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	24	0	0	0	0
OCT 5	0	0	0	0	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	24	0	0	0	0
OCT 6	0	0	0	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	24	0	0	0	0
OCT 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	18	0	0
OCT 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	22	0	0
OCT 9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	17	0	0
OCT 10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
OCT 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
OCT 12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0

TABLE D-27. NUMBER OF HOURS RECORDED FOR MCHLR

	- SITE NUMBER -																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
SEPT 15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0
SEPT 16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0
SEPT 17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	0	0	0	0	0	0	0
SEPT 18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	0	0	0	0	0	0	0
SEPT 19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0
SEPT 20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	0	0	0	0	0	0	0
SEPT 21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0
SEPT 22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0
SEPT 23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0
SEPT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0
SEPT 25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0
SEPT 26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0
SEPT 27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0
SEPT 28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0
SEPT 29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0
SEPT 30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0
OCT 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0
OCT 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0
OCT 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	0	0	0	0	0	0	0
OCT 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0
OCT 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	0	0	0	0	0	0	0
OCT 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0
OCT 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0
OCT 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0
OCT 9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0
OCT 10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0
OCT 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0
OCT 12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0